

# CELSIUS ENERGY COMPANY

P.O. BOX 432 • PO BOX OFFICE BLDG. • PHONE (307) 382-9791

April 4, 1983

Born Street  
Utah Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

RECEIVED  
APR 04 1983

DIVISION OF  
OIL, GAS & MINING

Dear Mr. Stuart:

Attached for your approval, please find two copies of the Application for Permit to Drill for Ute Well No. 1 in Section 10, T36S, R26E, San Juan County, Utah.

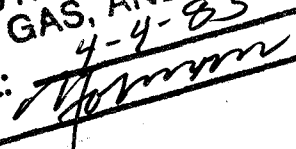
As our time frame on this well is extremely short with our lease due to expire soon, verbal approval of the APD would be greatly appreciated. Please call me at (307) 382-9791 if there are any questions.

Respectfully,

  
Jennifer Reed  
Coordinator Environmental Affairs

JR/dlb

Enclosures

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 4-4-83  
BY: 

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS

1. Lease Information and Serial No.

Feet

2. If location, describe or define same

3. Well Agreement Name

4. Name of Lessee Name

Ucilo

5. Well No.

3

6. Field and Pool or Wildcat

Wildcat

7. Area, T. R. S. or B.L. and Survey or Area

10-345-24E, S1/4 & N

8. County and Parish 9. State

San Juan Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

10. Type of Work

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

11. Type of Well

Oil ☒

Gas ☐

Geothermal ☐

Multiple ☐

12. Name of Operator

Calculus Energy Company

13. Address of Operator

P.O. Box 458, Rock Springs, WY 82901

14. Location of Well (Mount location exactly and in accordance with any State requirements):

At surface

NE SW, 2100' FSL, 2080' FWL

15. Proposed well, size

16. Distance in miles and direction from nearest town or post office

25 miles South and West of Dove Creek, Colorado

17. Distance from proposed

location to nearest

property or lease line, ft.

18. Distance from proposed location

to nearest well, drilling, completed

or applied for, on this lease, ft.

560'

N/A

19. No. of acres in lease

138

20. Proposed depth

6425

21. No. of acres drilled

in this well

180

22. Registry or public land

Rotary

23. Approx. date work will start

Upon Approval

24.

PROPOSED Casing and Cementing Program

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4	9-5/8	36	2000	180 sacks with 11 Gall & 1/48 flocculant*
8-3/4	7	23	6425	To be determined

\* See attached drilling plan

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 4-4-83  
BY: Norman L. Stout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed is to deepen or plug back, give data on present productive zone and proposed new producing zone. If proposed is to drill or deepen horizontally, give proposed data on subsurface location and structure and true vertical depth. Give proposed program, if any.

25.

Signature

*A. J. Mauer*

Title Drilling Superintendent

Date

4/4/83

(This space for Federal or State office use)

Form No.

Approval Date

Approved by

Title

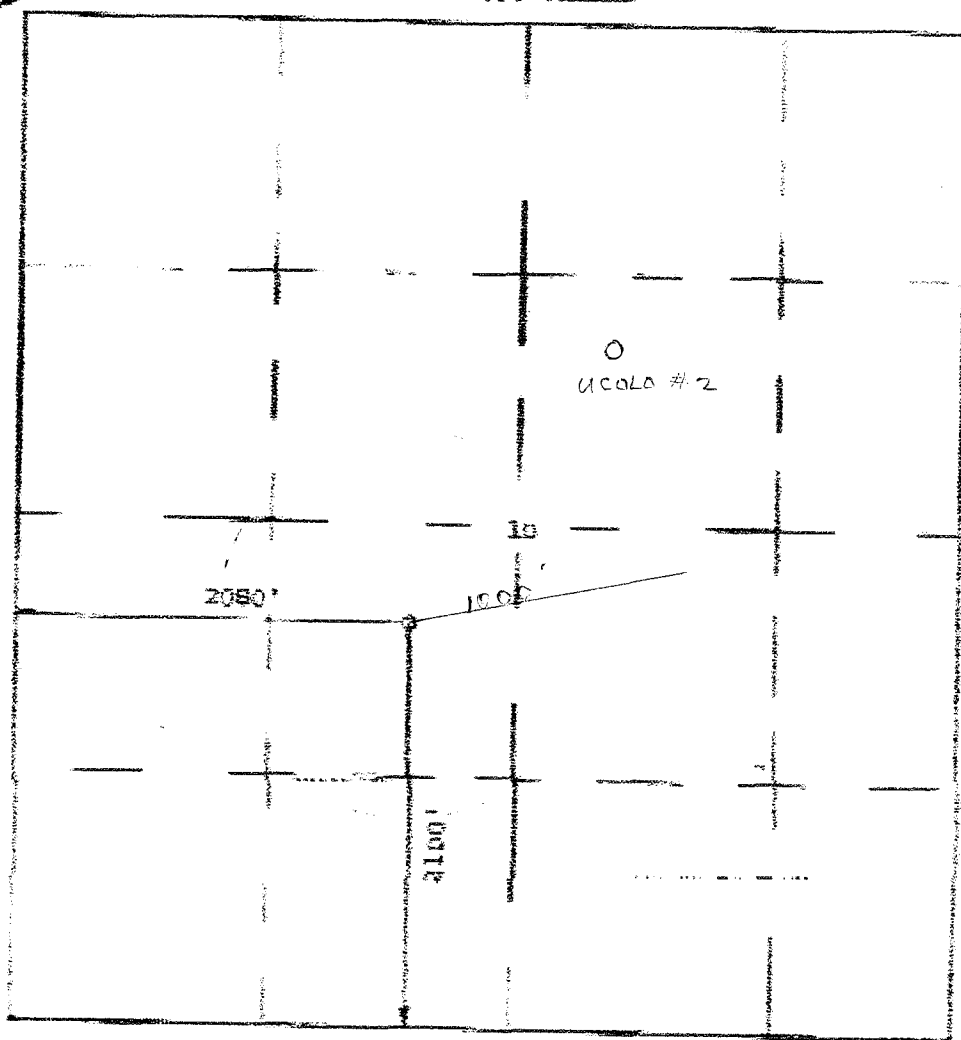
Date

Conditions of approval, if any



## POWERS ELEVATION

74.96 chains



75.12 chains

Operator Calculus Energy Co.		Well Name UCOLA # 2	
Section 10	Township 36 South	Range 26 East	Meridian SLM
Footage 2100' FSL & 2080' FSL			County/State San Juan, Utah
Elevation 6633'	Requested by Jennifer Head		
The above plat is true and correct to the best of my knowledge and belief.			
18 March 1981		<i>Gerald G. Waddleton</i> Gerald G. Waddleton, L.S. Utah Exception	

Drilling Plan  
Celsins Energy Company  
Ucolo Well No. 3  
San Juan County, Utah

1. SURFACE FORMATION: Dakota

2 & 3. ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL BEARING FORMATIONS:

MORRISON	250'
ENTRADA	1115'
CARMEL	1250'
NAVAJO	1300'-fresh water
CHINLE	1930'
SHINARUMP	2705'
CUTLER	2935'
HONAKER TRAIL	4625'
PARADOX	5350'
ISLAY (Base 2nd Shale)	6030'
ISLAY ZONE	6080'-possible oil
2 ZONE SHALE	6215'
DESERT CREEK	6275'
LOWER BENCH, DESERT CREEK	6325'
DESERT CREEK POROSITY	6335'-possible oil
SALT	6420'

4. CASING PROGRAM:

Footage	Size	Grade	Wt.	Condition	Thread	Cement
2000	9-5/8	K-55	36	New	8rd, ST&C	180 sacks with 3% CaCl & 1/4# Flocele 375 sacks with 10# gilsonite, 2% CaCl & 1/4# Flocele
4000	7	K-55	23	New	8rd, ST&C	To be determined
1750	7	K-55	26	New	8rd, LT&C	To be determined
575	7	N-80	26	New	8rd, LT&C	To be determined

5. PRESSURE CONTROL EQUIPMENT: (See attached diagram) Operator's minimum specifications for pressure control equipment requires a 10-inch 3000 psi double gate blowout preventer. Surface casing and all preventer rams will be pressure tested to 2500psi for 15 minutes using rig pump and mud. BOP's will be checked daily as to mechanical operating condition and will be tested by rig equipment after each string of casing is run. All ram type preventers will have hand wheels which will be operative at the time the preventers are installed.

6. MUD PROGRAM: Gel water base mud from surface to TD.

Sufficient mud materials to maintain mud properties, control lost circulation and to contain blowout will be available at the wellsite.

7. AUXILIARY EQUIPMENT:

- a) Manually operated Kelly cock
- b) No floats at bit
- c) Monitoring of mud system will be visual

d) Full opening floor valve manually operated

8. LOGGING: DIL-SPL and CEL-FDC from surface casing to TD

TESTING: One DST in Desert Creek Porosity

CORING: One core in Desert Creek Porosity, 6325'-6385'

9. ABNORMAL PRESSURE AND TEMPERATURE: Pressures of 3600-3700 psi expected in Desert Creek Porosity. BHT of 140°F

10. ANTICIPATED STARTING DATE: Upon approval

DURATION OF OPERATION: 21 days



OPERATOR CELSIUS ENERGY CO DATE 4-4-83

WELL NAME UCOLO #3

SEC NESW 10 T 36S R 26E COUNTY SAN JUAN

43-037-30875

API NUMBER

FEE

TYPE OF LEASE

POSTING CHECK OFF:

☒

INDEX

☒

HL

☒☐

NID

☒

PI

☐☒

MAP

☒☐

PROCESSING COMMENTS:

IRREGULAR SECTION (E $\frac{1}{2}$ )

PROPER DRILLING LOCATION

PJK

APPROVAL LETTER:

SPACING: ☐ A-3                      UNIT

☒

c-3-a 186-4 12-18-80  
CAUSE NO. & DATE

☐

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING *BLANKET*

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☒ ORDER 186-4

☐ UNIT \_\_\_\_\_

☐ c-3-b

☐ c-3-c

☒ CHECK DISTANCE TO NEAREST WELL.

☒ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.



April 4, 1983

Celsius Energy Company  
P. O. Box 458  
Rock Springs, Wyoming 82901

RE: Ucolo #3  
NESE Sec. 10, T. 36S, R. 26E  
2100' FSL, 2080' FWL  
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 186-4 dated December 18, 1980.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

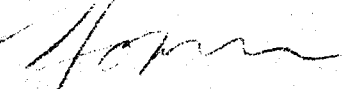
RONALD J. FIRTH - Chief Petroleum Engineer  
Office: 533-5771  
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30875.

Sincerely,



Norman C. Stout  
Administrative Assistant

NCS/as  
Enclosure

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: CELSIUS ENERGY COMPANY

WELL NAME: UCOLO #3

SECTION NESE 10 TOWNSHIP 36S RANGE 26E COUNTY San Juan

DRILLING CONTRACTOR Arapahoe

RIG # 4

SPUDDED: DATE 4-12-83

TIME Midnight

How Rotary

DRILLING WILL COMMENCE

REPORTED BY Cathy Flansburg

TELEPHONE # 307-382-9791

DATE 4-13-83 SIGNED AS

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Celsius Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --
3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, WY 82901		7. UNIT AGREEMENT NAME --
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE SW 2100' FSL, 2080' FWL		8. FARM OR LEASE NAME Ucolo
14. PERMIT NO. API #43-037-30875		9. WELL NO. 3
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6633'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 10 - 36S - 26E - SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary History</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

TD 5933', Drilling.

Spudded April 12, 1983, at 12:00 P.M. Ran and cemented 14" line pipe and 9-5/8" casing.

18. I hereby certify that the foregoing is true and correct

SIGNED

*P. Martin*

Assistant

TITLE Drilling Superintendent

DATE April 22, 1983

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

# LYNES, INC.

Celsius Energy Company  
Operator

Ucola #3

Well Name and No.

1 & 2  
DST No.

Dear Sirs:

Please find attached a revised sample report for DST #1 & #2. The original report indicated that R.W. of the samples was chlorides. This should read NACL as shown in the attached.

RW

RECEIVED

MAY 10 1993

DIVISION OF  
OIL, GAS & MINING

# LYNES, INC.

## Sampler Report

Company Celsius Energy Company Date 4/25/83  
Well Name & No. Ucola #3 Ticket No. 04151  
County San Juan State Utah  
Test Interval 6320-6365 Ft. DST No. 1

Total Volume of Sampler: 2150 cc.  
Total Volume of Sample: 1400 cc.  
Pressure in Sampler: 30 psig  
Oil: 5 cc.  
Water: 1000 cc.  
Mud: 395 gas cut mud cc.  
Gas: .09 cu. ft.  
Other: --

Sample R.W.: .1 @ 63° = 80,000 ppm. NaCl

### Resistivity

Make Up Water -- @ -- Salinity Content -- ppm.  
Mud Pit Sample .65 @ 68°F Salinity Content 9100 ppm.  
Gas/Oil Ratio -- Gravity -- °API @ -- °F

Where was sample drained On location.

Remarks: Recovery:

Top Sample R.W.: .2 @ 65°F = 35,000 ppm. NaCl

Middle Sample R.W.: .1 @ 65°F = 80,000 ppm. NaCl

Bottom Sample R.W.: .08 @ 63°F = 105,000 ppm. NaCl

# LYNES, INC.

## Sampler Report

Company Celsius Energy Company Date 4/27/83  
Well Name & No. Ucola # 3 Ticket No. 04151  
County San Juan State Utah  
Test Interval 6316-6398 Ft. DST No. 2

Total Volume of Sampler: 2150 cc.

Total Volume of Sample: 2150 cc.

Pressure in Sampler: 30 psig

Oil: None cc.

Water: 800 cc.

Mud: 1000 cc.

Gas: None cu. ft.

Other: 350 highly gas cut and slightly oily mud

Sample R.W.: .04 @ 66°F = 200,000+ ppm. NaCl

### Resistivity

Make Up Water -- @ -- Salinity Content -- ppm.

Mud Pit Sample .6 @ 70°F Salinity Content 10,000 ppm.

Gas/Oil Ratio -- Gravity -- °API @ -- °F

Where was sample drained On location.

Remarks: Recovery:

Top Sample R.W.: .38 @ 68°F = 17,000 NaCl

Middle Sample R.W.: .15 @ 70°F = 48,000 NaCl

Bottom Sample R.W.: .10 @ 68°F = 78,000 NaCl

# LYNES, INC.

Celsius Energy Company  
Operator

Ucola #3

Well Name and No.

1 & 2  
DST No.

Dear Sirs:

Please find attached a revised sample report for DST #1 & #2. The original report indicated that R.W. of the samples was chlorides. This should read NACL as shown in the attached.

# LYNES, INC.

## Sampler Report

Company Celsius Energy Company Date 4/27/83  
Well Name & No. Ucola # 3 Ticket No. 04151  
County San Juan State Utah  
Test Interval 6316-6398 Ft. DST No. 2

Total Volume of Sampler: 2150 cc.

Total Volume of Sample: 2150 cc.

Pressure in Sampler: 30 psig

Oil: None cc.

Water: 800 cc.

Mud: 1000 cc.

Gas: None cu. ft.

Other: 350 highly gas cut and slightly oily mud

Sample R.W.: .04 @ 66°F = 200,000+ ppm. NaCl

### Resistivity

Make Up Water -- @ -- Salinity Content -- ppm.

Mud Pit Sample .6 @ 70°F Salinity Content 10,000 ppm.

Gas/Oil Ratio -- Gravity -- °API @ -- °F

Where was sample drained On location.

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Top Sample R.W.: .38 @ 68°F = 17,000 NaCl

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# LYNES, INC.

## Sampler Report

Company Celsius Energy Company Date 4/25/83  
Well Name & No. Ucola #3 Ticket No. 04151  
County San Juan State Utah  
Test Interval 6320-6365 Ft. DST No. 1

Total Volume of Sampler: 2150 cc.  
Total Volume of Sample: 1400 cc.  
Pressure in Sampler: 30 psig  
Oil: 5 cc.  
Water: 1000 cc.  
Mud: 395 gas cut mud cc.  
Gas: .09 cu. ft.  
Other: --

Sample R.W.: .1 @ 63° = 80,000 ppm. NaCl

### Resistivity

Make Up Water -- @ -- Salinity Content -- ppm.  
Mud Pit Sample .65 @ 68°F Salinity Content 9100 ppm.  
Gas/Oil Ratio -- Gravity -- °API @ -- °F

Where was sample drained On location.

Remarks: Recovery:

Top Sample R.W.: .2 @ 65°F = 35,000 ppm. NaCl

Middle Sample R.W.: .1 @ 65°F = 80,000 ppm. NaCl

Bottom Sample R.W.: .08 @ 63°F = 105,000 ppm. NaCl

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Enter instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee	
2. NAME OF OPERATOR Celsius Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, WY 82902		7. UNIT AGREEMENT NAME ---	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE SW, 2100' FSL, 2080' FWL		8. FARM OR LEASE NAME Ucolo	
14. PERMIT NO. API 43-037-30875		9. WELL NO. 3	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6633' KB 6647.20'		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 10-36S-26E-SLB&M	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/> Supplementary History	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

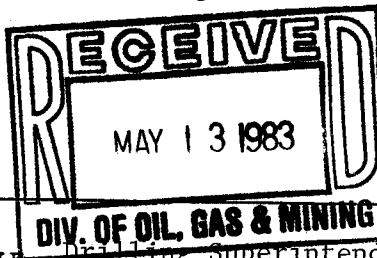
TD 6398', rig released 4:00 P.M., 4/29/83, rigging up completion tools.

Landed 9-5/8" OD, 36#, K-55, ST&C casing at 2018.58', cemented with 500 sacks Halco Light and 200 sacks Regular B cement, good returns, float held ok, cement in place on 4/15/83.

DST #1: 6320'-6365', Desert Creek, 5 unit increase, IO 30 mins, ISI 90 mins, FO 120 mins, FSI 240 mins, opened strong, gas to surface in 45 mins, not enough to gauge, recovered 30' gas and oil cut mud, IHP 4101, IOFP's 85-101, ISIP 2950, FOFP's 80-160, FSIP 3170, FHP 3992.

DST #2: 6316'-6398', Desert Creek, 5 unit increase, IO 30 mins, ISI 90 mins, FO 240 mins, FSI 360 mins, opened weak increasing to medium blow in 7 mins, 210 mins gas to surface, 240 mins shut in tubing, recovered 110' gas cut mud and 390' gas cut water, IHP 4147, IOFP's 105-124, ISIP 2755, FOFP's 153-253, FSIP 3177, FHP 4116.

Landed 5 1/2" OD, 17#, K-55, LT&C casing at 6392.20', cemented with 400 sacks 50-50 Pozmix, displaced with 148 barrels fresh water, good returns, floating equipment held ok, cement in place on 4/29/83.



## 18. I hereby certify that the foregoing is true and correct

SIGNED

*A. J. Maur*

TITLE

DIV. OF OIL, GAS & MINING

Drilling Superintendent

DATE

May 10, 1983

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Phone  
713-790-9132

# LYNES, INC.

Box 12486  
Houston, TX 77017

Contractor Arapahoe Drilling  
Rig No. 4  
Spot NE-SW  
Sec. 10  
Twp. 36S  
Rng. 26E  
Field Ucolo  
County San Juan  
State Utah  
Elevation 6647 Ft. K.B.  
Formation Desert Creek

Top Choke 1"  
Bottom Choke 1"  
Size Hole 8 3/4"  
Size Rat Hole --  
Size & Wt. D. P. 4 1/2" XH 16.60  
Size Wt. Pipe --  
I. D. of D. C. 2 1/2"  
Length of D. C. 615 Ft.  
Total Depth 6398 Ft.  
Interval Tested 6316-6398 Ft.  
Type of Test Bottom Hole  
Conventional

Flow No. 1 30 Min.  
Shut-in No. 1 88 Min.  
Flow No. 2 240 Min.  
Shut-in No. 2 360 Min.  
Flow No. 3 -- Min.  
Shut-in No. 3 -- Min.  
Bottom  
Hole Temp. 140.6°  
Mud Weight 12.2  
Gravity --  
Viscosity 41

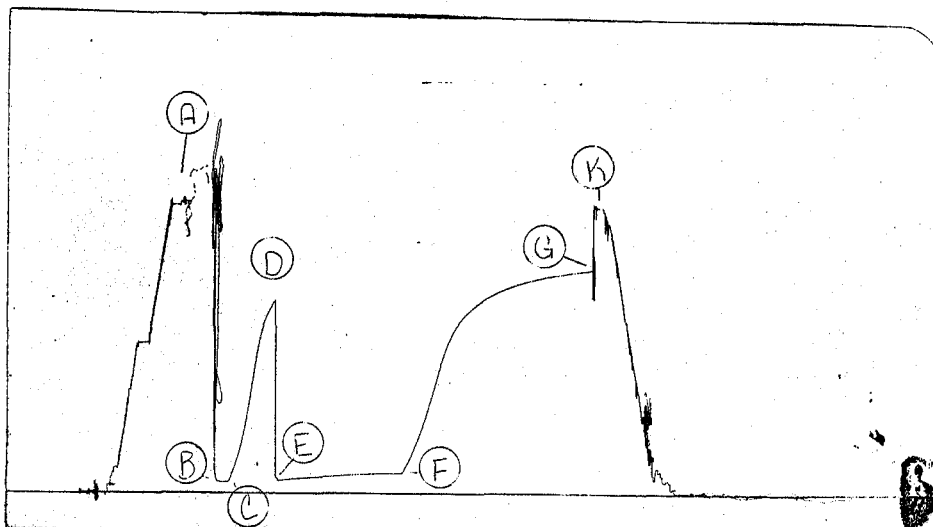
Tool opened @ 8:38 AM

## Inside Recorder

PRD Make Kuster K-3  
No. 24521 Cap. 6625 @ 6300'

	Press	Corrected
Initial Hydrostatic	A	4167
Final Hydrostatic	K	4089
Initial Flow	B	157
Final Initial Flow	C	152
Initial Shut-in	D	2753
Second Initial Flow	E	174
Second Final Flow	F	284
Second Shut-in	G	3196
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, WY.  
Our Tester: Lance Sipma  
Witnessed By: Mike Sliger



Did Well Flow - Gas Yes Oil No Water No  
RECOVERY IN PIPE:

500 Ft. Total fluid = 2.45 bbls.  
20 Ft. Gas and oil cut mud = .10 bbl.  
90 Ft. Gas cut mud = .44 bbl.  
390 Ft. Gas and mud cut water = 1.91 bbls.

## Blow Description

1st Flow:

Tool opened with a 1" underwater blow, increased to 5" in 5 minutes, increased to 25" in 10 minutes, increased to 2 psi in 15 minutes, increased to 3 psi in 30 minutes.

2nd Flow:

Tool opened with a 2" underwater blow, increased to 3 psi in 15 minutes, gas to surface in 210 minutes with 3 psi, blow decreased to 1 1/2 psi in 240 minutes. See Gas Volume Report.

Comments:

Both fluid and gas reservoir calculations are enclosed.

Operator Celsius Energy Company  
Address See Distribution

Well Name and No. Ucolo a # 3  
Ticket No. 04152

Date 4/27/83

DST No. 2  
No. Final Copies 9

# LYNES, INC.

Celsius Energy Company  
Operator

Ucola # 3

Well Name and No.

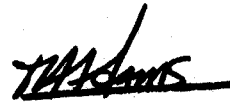
2  
DST No.

Comments relative to DST # 2 run on Ucola # 3, NE-SW-10-36S-26E in San Juan County, Utah for Celsius Energy Company

The enclosed calculations were performed by plotting the time pressure data on a semi-log scale and using the slope and extrapolated pressure in the appropriate calculations. Please note that the data for both fluid & gas analysis is enclosed.

In both cases the results indicate a zone of lower permeability with no damage to the zone indicated.

Please note that these calculations should be used as indicators only since many of the reservoir parameters have been estimated. These can be changed at any time without any inconvenience.



T.H. Adams, C.E.T.  
Technical Services Manager

\*\*\* LYNES INC. \*\*\*

Operator.....: CELSIUS ENERGY COMPANY  
Well ID.....: UCOLA #3  
Location.....: NE-SW-10-36S-26E  
DST Number.....: 2  
Formation.....: DESERT CREEK  
Type of test....: BOTTOM HOLE CONVENTIONAL  
Test interval...: 6316-6398  
Recorder number : 24521  
Recorder depth : 6300

RESERVOIR CALCULATIONS: Fluid calculations based on 2nd shut-in  
\*\*\*\*\*

RESERVOIR PARAMATERS USED:

\*\*\*\*\*

Net Pay.....:	10.00 ft.
Porosity.....:	10.00 %
Compressibility.....:	.000014 /psi
Flow rate.....:	13.07 bbl/day
Extrapolation.....:	3679.08 psi
Slope.....:	1724.74 psi/cycle
Wellbore radius.....:	.36 ft.
Total flowing time.....:	270.00 minutes
Final flowing pressure:	284.00 psi
Formation vol. factor :	1.48 rb/stb
Viscosity.....:	.50 cp

RESULTS:

\*\*\*\*\*

Effective Permeability..(k)....:	.09 md
Flow capacity.....(kh)....:	.91 md-ft
Transmissibility.....(kh/u)....:	1.82 md-ft/cp
Skin.....(s)....:	-1.67
Damage ratio.....:	.58
Productivity index.....:	.00 bbl-day/psi
Radius of investigation.....:	22.20 ft.

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 24521  
Recorder Depth: 6300 ft.

TIME-PRESSURE LISTING  
-----

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURE (T+dt)/dt PSI	PRESSURE SQUARED PSI^2/10^6
A	INITIAL HYDROSTATIC	0.0		4167.0	
B	START OF 1st FLOW	0.0		157.0	
C	END OF 1st FLOW	30.0		152.0	
	1st SHUTIN PERIOD	0.0	0.0	205.0	0.0000
		6.0	115.0	320.0	6.0000
		12.0	241.0	446.0	3.5000
		18.0	386.0	591.0	2.6667
		24.0	555.0	760.0	2.2500
		30.0	753.0	958.0	2.0000
		40.0	1175.0	1380.0	1.7500
		50.0	1671.0	1876.0	1.6000
		60.0	2097.0	2302.0	1.5000
		70.0	2356.0	2561.0	1.4286
		80.0	2518.0	2723.0	1.3750
D	END OF 1st SHUTIN	90.0	2618.0	2823.0	1.3333
E	START OF 2nd FLOW	0.0		174.0	
F	END OF 2nd FLOW	240.0		284.0	
	2nd SHUTIN PERIOD	0.0	0.0	365.0	1.3333
		6.0	87.0	452.0	46.0000
		12.0	178.0	543.0	23.5000
		18.0	276.0	641.0	16.0000
		24.0	385.0	750.0	12.2500
		30.0	501.0	866.0	10.0000
		40.0	718.0	1083.0	7.7500
		50.0	962.0	1327.0	6.4000
		60.0	1231.0	1596.0	5.5000
		70.0	1502.0	1867.0	4.8571
		80.0	1750.0	2115.0	4.3750
		90.0	1943.0	2308.0	4.0000
		100.0	2083.0	2448.0	3.7000
		110.0	2186.0	2551.0	3.4545
		120.0	2270.0	2635.0	3.2500
		140.0	2403.0	2768.0	2.9286
		160.0	2503.0	2868.0	2.6875
		180.0	2579.0	2944.0	2.5000
		200.0	2643.0	3008.0	2.3500
		220.0	2694.0	3059.0	2.2273
		240.0	2738.0	3103.0	2.1250

CELSIUS ENERGY COMPANY  
DST#: 2  
UCOLA #3  
6316-6398

Page 2

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 24521  
Recorder Depth: 6300 ft.

TIME-PRESSURE LISTING  
-----

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURE (T+dt)/dt PSI	ABSCISSA	PRESSURE SQUARED PSI <sup>2</sup> /10 <sup>6</sup>
		260.0	2774.0	3139.0	2.0385	
		280.0	2805.0	3170.0	1.9643	
		300.0	2831.0	3196.0	1.9000	
		320.0	2856.0	3221.0	1.8438*	
		340.0	2876.0	3241.0	1.7941*	
G END OF 2nd SHUTIN		360.0	2895.0	3260.0	1.7500*	
K FINAL HYDROSTATIC		0.0		4089.0		

\* VALUES USED FOR EXTRAPOLATIONS

CELSIUS ENERGY COMPANY  
DST#: 2  
UCOLA #3  
6316-6398

Page 3

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 24521  
Recorder Depth: 6300 ft.

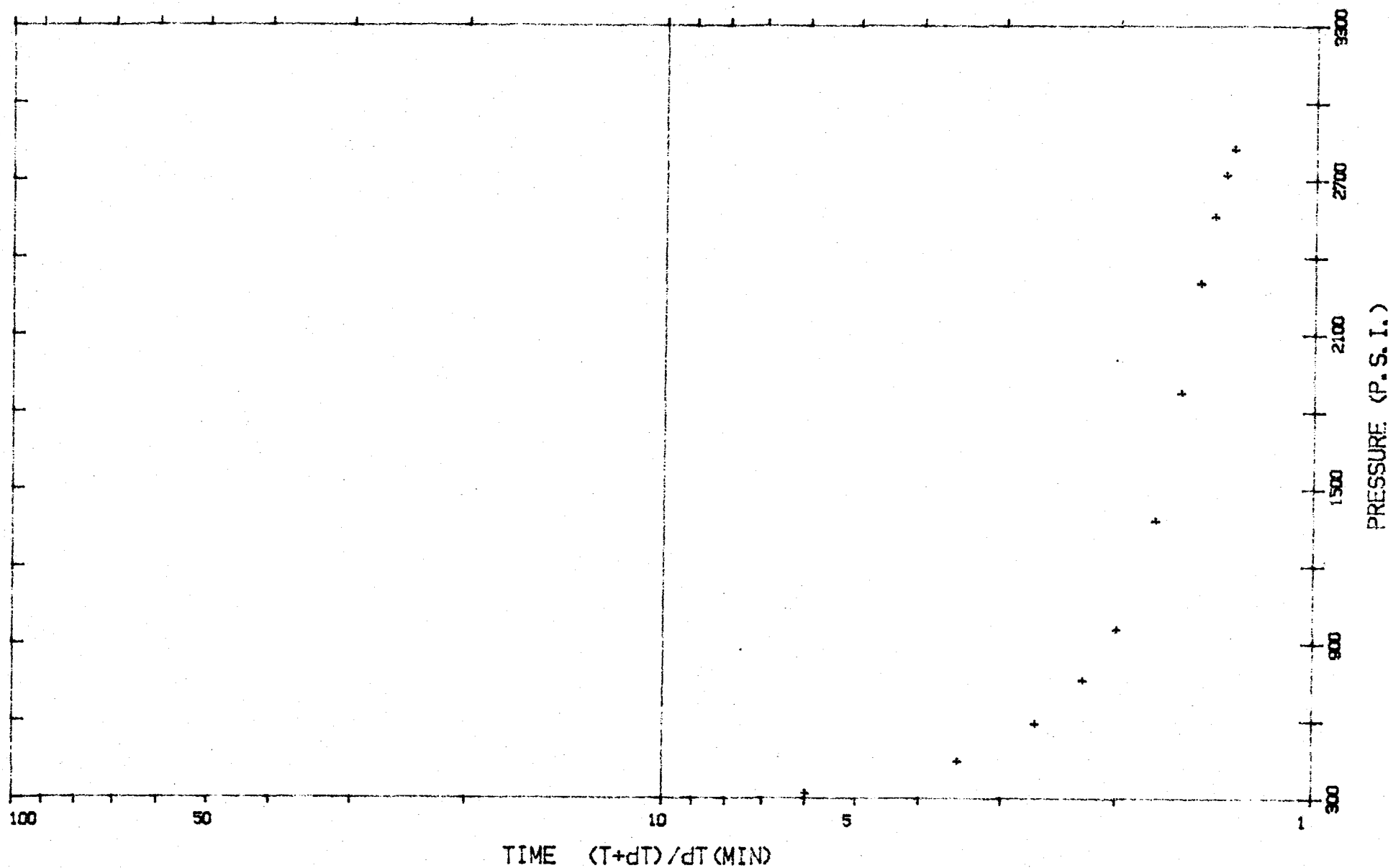
2nd SHUT-IN  
HORNER EXTRAPOLATION 3679.08 PSI  
HORNER SLOPE 1724.74 PSI/cycle



OPERATOR: CELSIUS ENERGY COMPANY  
WELL NAME: UCOLA #3  
LOCATION: NE-SW-10-36S-26E  
FIRST SHUT-IN  
RECORDER: 24521

DST #: 2

DEPTH: 6300



OPERATOR: CELSIUS ENERGY COMPANY

WELL NAME: UCOLA #3

LOCATION: NE-SW-10-36S-26E

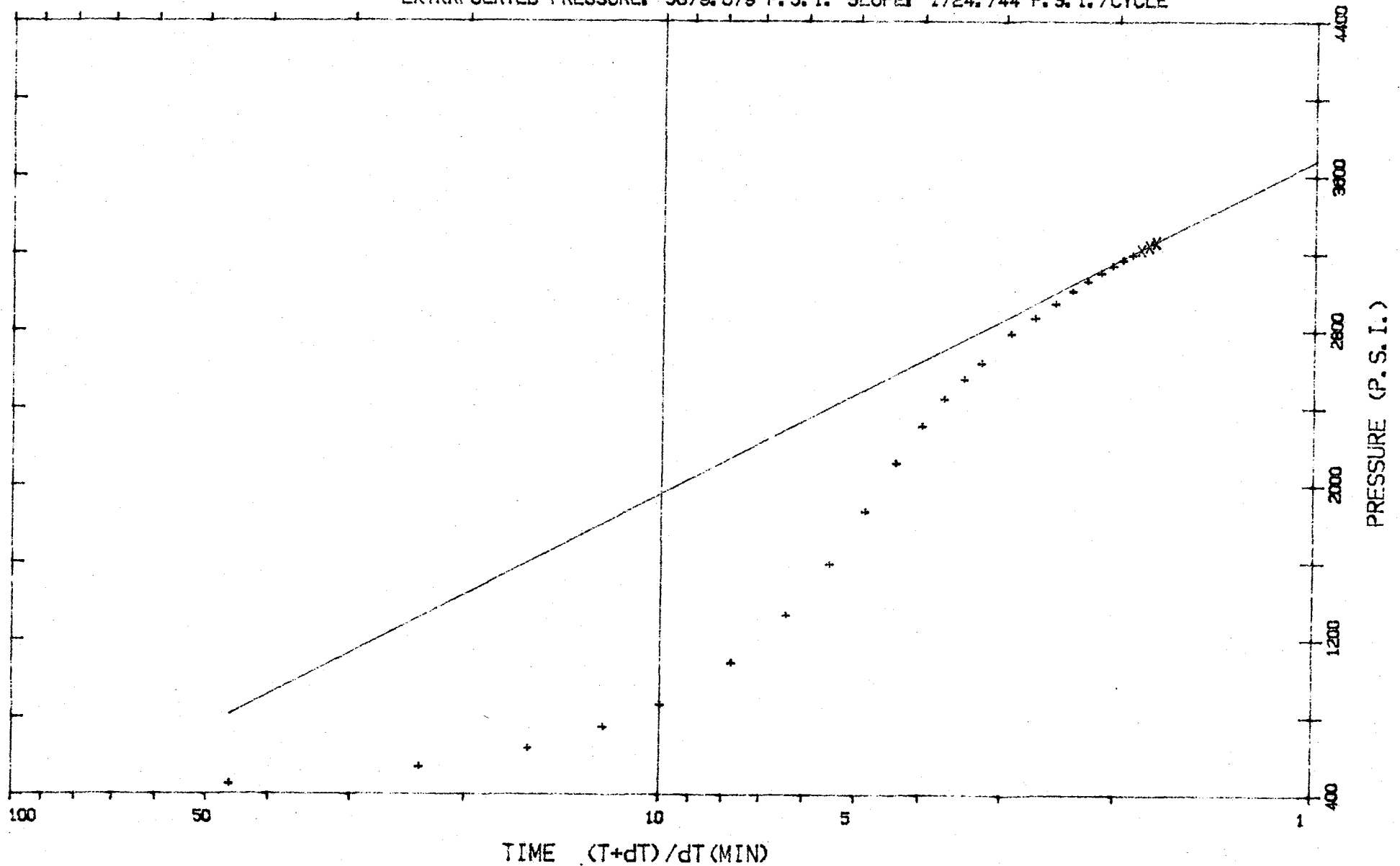
DST #: 2

SECOND SHUT-IN

RECORDER: 24521

DEPTH: 6300

EXTRAPOLATED PRESSURE: 3679.079 P.S.I. SLOPE: 1724.744 P.S.I./CYCLE



\*\*\* LYNES INC. \*\*\*

Operator.....: CELSIUS ENERGY COMPANY  
 Well ID.....: UCOLA #3  
 Location.....: NE-SW-10-36S-26E  
 DST Number.....: 2  
 Formation.....: DESERT CREEK  
 Type of test....: BOTTOM HOLE CONVENTIONAL  
 Test interval....: 6316-6398  
 Recorder number : 24521  
 Recorder depth : 6300

RESERVOIR CALCULATIONS: Gas calculations based on 2nd shut-in  
 \*\*\*\*\*

RESERVOIR PARAMETERS USED:  
 \*\*\*\*\*

Bottom hole temp:	140.00 deg. F.	Specific gravity:	.650000
Porosity.....:	10.00 %	Z factor.....:	.867584
Net Pay.....:	10.00 ft.	Compressibility:	.000197 /psi
Flow rate.....:	13.07 mcfd	Viscosity.....:	.013560 cp
Total flowing time.....:	270.000 minutes		
Final flowing pressure :	284.000 psi		
Horner Extrapolation....:	3651.491 psi		
Horner Slope.....:	11.139 psi <sup>2</sup> /10 <sup>6</sup>		
Assumed drainage radius:	2082.000 ft.		
Wellbore radius.....:	.365 ft.		

RESULTS:  
 \*\*\*\*\*

Effective permeability....(k)...	.0014 md
Flow capacity.....(kh)...	.0136 md-ft
Transmissibility.....(kh/u)...	.9999 md-ft/cp
Skin.....(s)...	-.9413
Damage ratio.....:	.5926
Absolute Open Flow...(AOF).....:	13.1515 mcfd
Radius of investigation.....:	4.3827 ft.

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 24521  
Recorder Depth: 6300 ft.

TIME-PRESSURE LISTING  
-----

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURE (T+dt)/dt PSI	ABSCISSA	PRESSURE SQUARED PSI <sup>2</sup> /10 <sup>6</sup>
A	INITIAL HYDROSTATIC	0.0		4167.0		
B	START OF 1st FLOW	0.0		157.0		
C	END OF 1st FLOW	30.0		152.0		
	1st SHUTIN PERIOD	0.0	0.0	205.0	0.0000	0.0000
		6.0	115.0	320.0	6.0000	.1024
		12.0	241.0	446.0	3.5000	.1989
		18.0	386.0	591.0	2.6667	.3493
		24.0	555.0	760.0	2.2500	.5776
		30.0	753.0	958.0	2.0000	.9178
		40.0	1175.0	1380.0	1.7500	1.9044
		50.0	1671.0	1876.0	1.6000	3.5194
		60.0	2097.0	2302.0	1.5000	5.2992
		70.0	2356.0	2561.0	1.4286	6.5587
		80.0	2518.0	2723.0	1.3750	7.4147
D	END OF 1st SHUTIN	90.0	2618.0	2823.0	1.3333	7.9693
E	START OF 2nd FLOW	0.0		174.0		
F	END OF 2nd FLOW	240.0		284.0		
	2nd SHUTIN PERIOD	0.0	0.0	365.0	1.3333	7.9693
		6.0	87.0	452.0	46.0000	.2043
		12.0	178.0	543.0	23.5000	.2948
		18.0	276.0	641.0	16.0000	.4109
		24.0	385.0	750.0	12.2500	.5625
		30.0	501.0	866.0	10.0000	.7500
		40.0	718.0	1083.0	7.7500	1.1729
		50.0	962.0	1327.0	6.4000	1.7609
		60.0	1231.0	1596.0	5.5000	2.5472
		70.0	1502.0	1867.0	4.8571	3.4857
		80.0	1750.0	2115.0	4.3750	4.4732
		90.0	1943.0	2308.0	4.0000	5.3269
		100.0	2083.0	2448.0	3.7000	5.9927
		110.0	2186.0	2551.0	3.4545	6.5076
		120.0	2270.0	2635.0	3.2500	6.9432
		140.0	2421.0	2786.0	2.9286	7.7618
		160.0	2503.0	2868.0	2.6875	8.2254
		180.0	2579.0	2944.0	2.5000	8.6671
		200.0	2643.0	3008.0	2.3500	9.0481
		220.0	2694.0	3059.0	2.2273	9.3575
		240.0	2738.0	3103.0	2.1250	9.6286

CELSIUS ENERGY COMPANY  
DST#: 2  
UCOLA #3  
6316-6398

Page 2

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 24521  
Recorder Depth: 6300 ft.

TIME-PRESSURE LISTING  
-----

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURE (T+dt)/dt PSI	ABSCISSA	PRESSURE SQUARED PSI <sup>2</sup> /10 <sup>6</sup>
		260.0	2774.0	3139.0	2.0385	9.8533
		280.0	2805.0	3170.0	1.9643	10.0489
		300.0	2831.0	3196.0	1.9000	10.2144
		320.0	2856.0	3221.0	1.8438*	10.3748
		340.0	2876.0	3241.0	1.7941*	10.5041
G END OF 2nd SHUTIN		360.0	2895.0	3260.0	1.7500*	10.6276
K FINAL HYDROSTATIC		0.0		4089.0		

\* VALUES USED FOR EXTRAPOLATIONS

CELSIUS ENERGY COMPANY  
DST#: 2  
UCOLA #3  
6316-6398

Page 3

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 24521  
Recorder Depth: 6300 ft.

2nd SHUT-IN

HORNER EXTRAPOLATION 3651.49 PSI  
HORNER SLOPE 11.14 (PSI<sup>2</sup>/10<sup>6</sup>)/cycle

OPERATOR: CELSIUS ENERGY COMPANY

WELL NAME: UCOLA #3

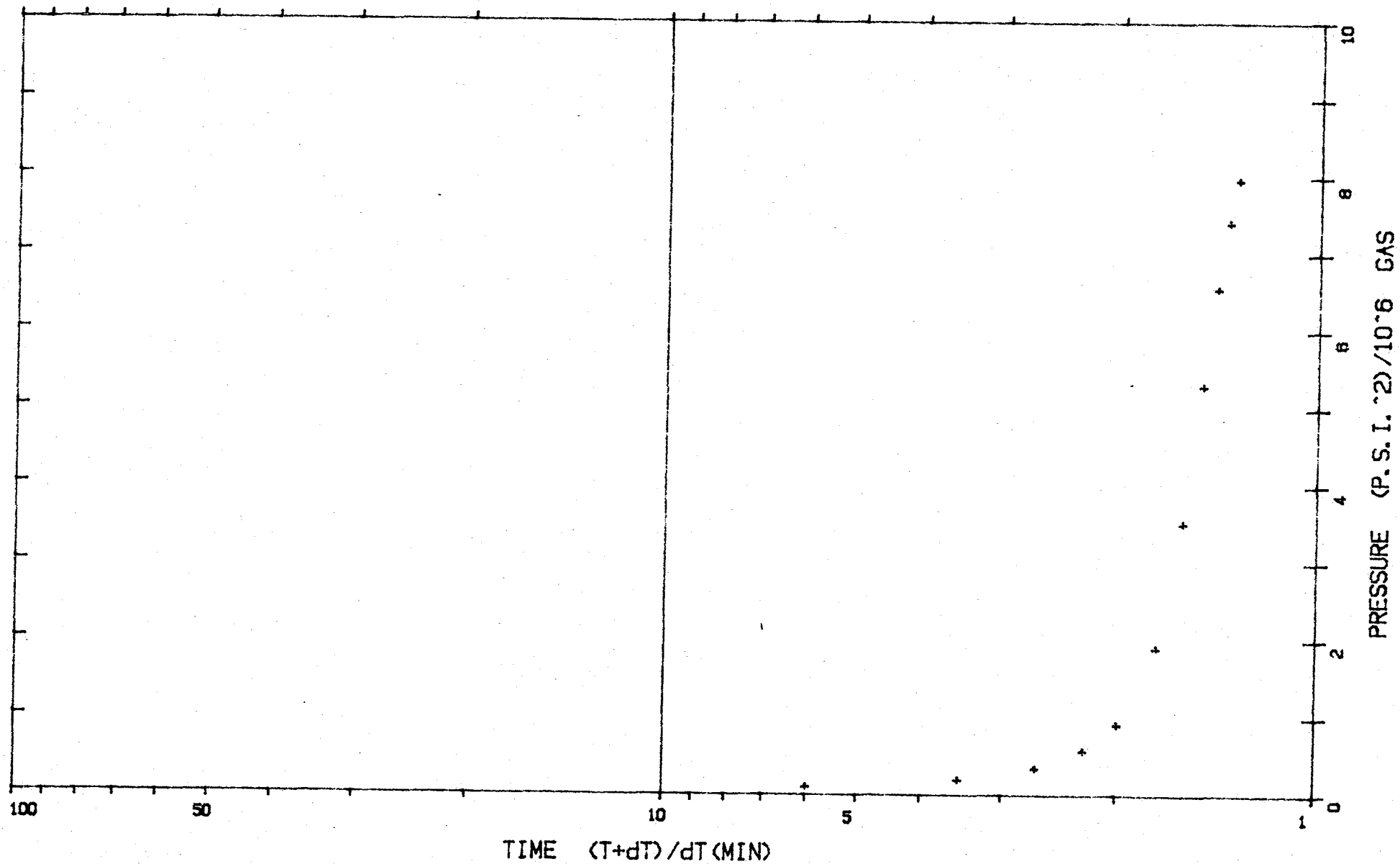
LOCATION: NE-SW-10-36S-26E

FIRST SHUT-IN

RECORDER: 24521

DST #: 2

DEPTH: 6300



OPERATOR: CELSIUS ENERGY COMPANY

WELL NAME: UCOLA #3

LOCATION: NE-SW-10-36S-26E

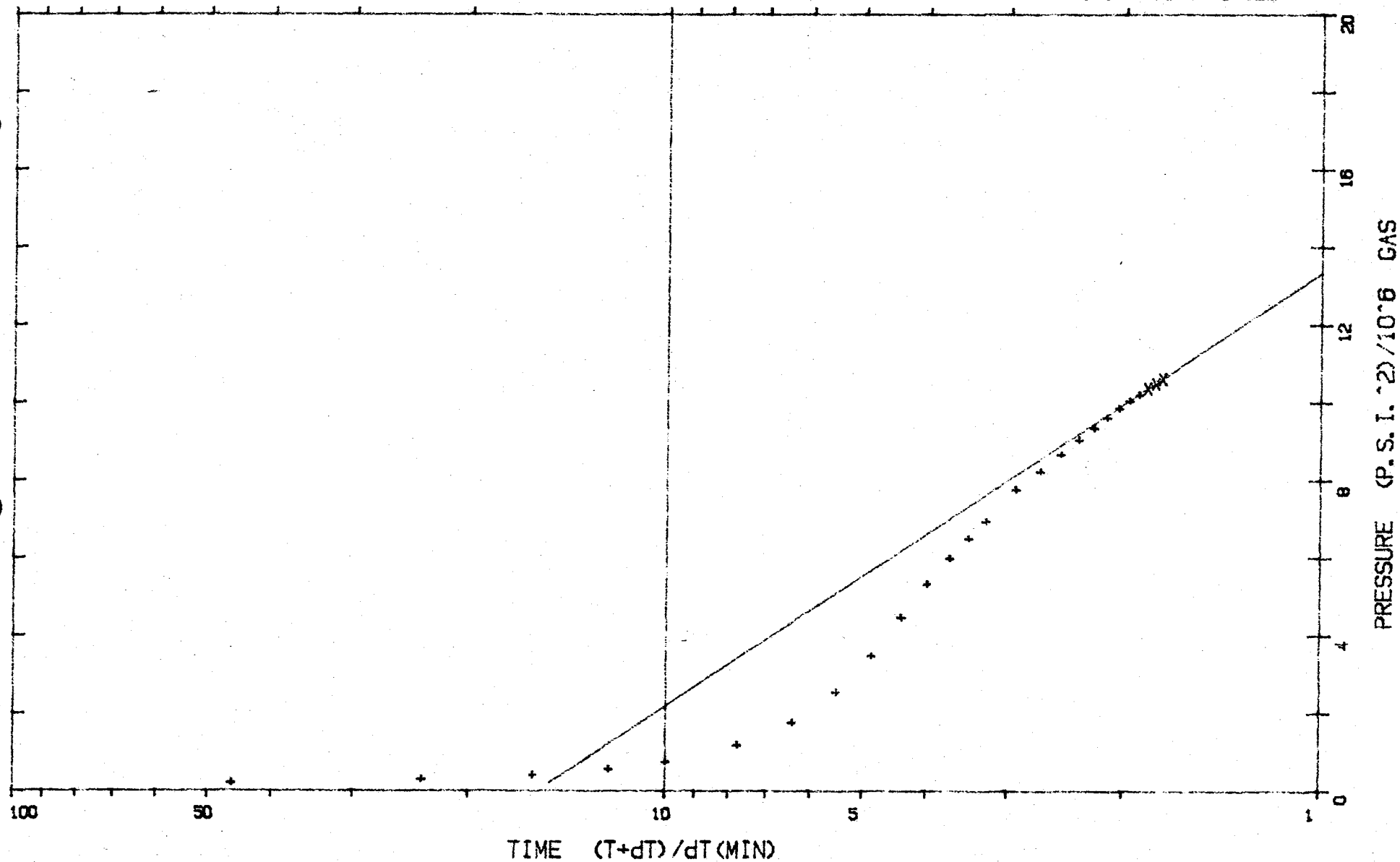
DST #: 2

SECOND SHUT-IN

RECORDER: 24521

DEPTH: 6300

EXTRAPOLATED PRESSURE: 3651.491 P.S.I. SLOPE: 11.139 (P.S.I.  $\cdot 2/10^6$ )/CYCLE





# LYNES, INC.

# Gas Volume Report

Celsius Energy Company

**Operator**

Uco1a # 3

2

Well Name and No.

DST No.

[illegible]**Remarks:**

# LYNES, INC.

## Sampler Report

Company Celsius Energy Company Date 4/27/83  
Well Name & No. Ucola # 3 Ticket No. 04151  
County San Juan State Utah  
Test Interval 6316-6398 Ft. DST No. 2

Total Volume of Sampler: 2150 cc.

Total Volume of Sample: 2150 cc.

Pressure in Sampler: 30 psig

Oil: None cc.

Water: 800 cc.

Mud: 1000 cc.

Gas: None cu. ft.

Other: 350 highly gas cut and slightly oily mud

Sample R.W.: .04 @ 66°F = 200,000+ ppm. cl.

### Resistivity

Make Up Water -- @ -- Salinity Content -- ppm.

Mud Pit Sample .6 @ 70°F Salinity Content 10,000 ppm.

Gas/Oil Ratio -- Gravity -- °API @ -- °F

Where was sample drained On location.

Remarks: Recovery:

Top Sample R.W.: .38 @ 68°F = 17,000 ppm. cl.

Middle Sample R.W.: .15 @ 70°F = 48,000 ppm. cl.

Bottom Sample R.W.: .10 @ 68°F = 78,000 ppm. cl.

CELSIUS ENERGY COMPANY  
DST#: 2  
UCOLA #3  
6316-6398

Page 1

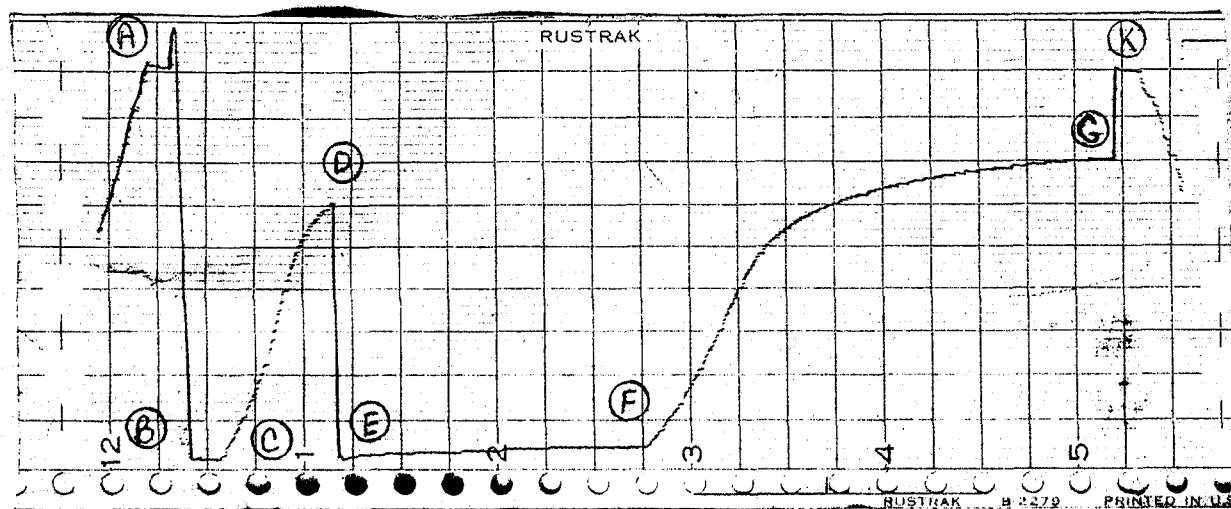
PRESSURE RECORDER NUMBER : 1622

DEPTH : 6398.00ft.  
TYPE : DMR

LOCATION : OUTSIDE  
CAPACITY : 5000.00 PSI

PRESSURE  
PSI

A)Initial Hydro : 4181.0  
B)1st Flow Start: 342.0  
C)1st Flow End : 205.0  
D)END 1st Shutin: 2823.0  
E)2nd Flow Start: 351.0  
F)2nd Flow End : 346.0  
G)END 2nd Shutin: 3260.0  
K)Final Hydro. : 4181.0



TEST TIMES(MIN)  
1st FLOW : 30  
SHUTIN: 88  
2nd FLOW : 240  
SHUTIN: 360

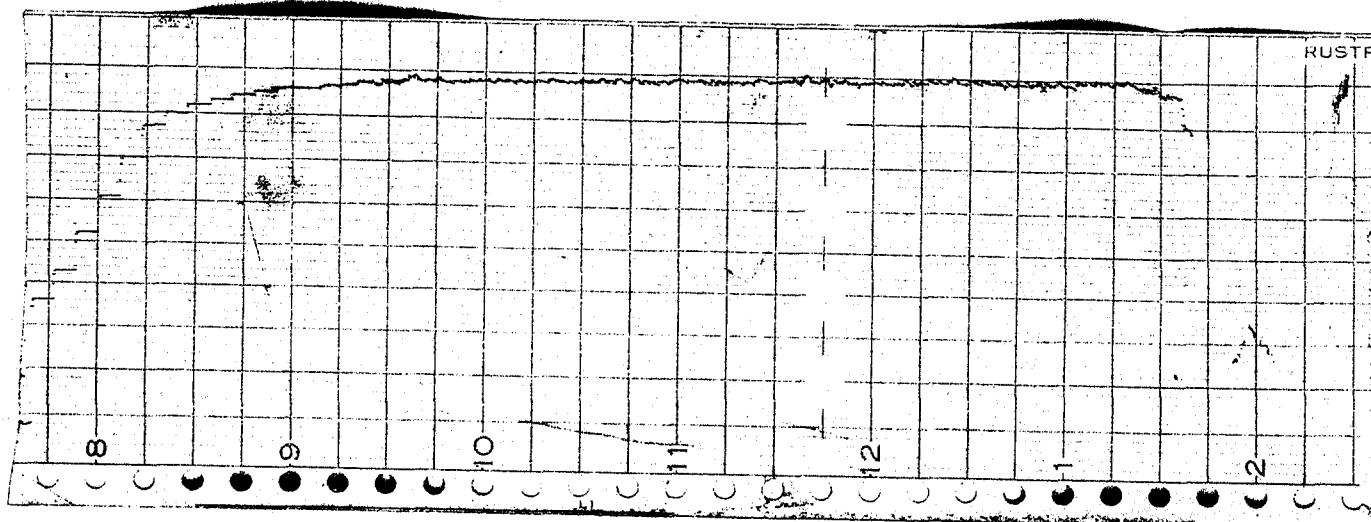
TEMPERATURE RECORDER NUMBER : 1622

DEPTH : 6398.00 ft.  
TYPE : DMR

LOCATION : OUTSIDE  
CAPACITY : 5000.00 PSI

TEMPERATURE

140.6°F



# LYNES, INC.

## Distribution of Final Reports

Celsius Energy Company  
Operator

Ucola #3

Well Name and No.

### Original &

1 copy Celsius Energy Company / Wexpro, POB 11070, Salt Lake City, UT 84147

Attn: Roger W. Fallen

2 copies Celsius Energy Company, POB 458, Rock Springs WY 82901

Attn: Petroleum Engineer

2 copies Celsius Energy Company, POB 2329, Farmington, NM 87499

Attn: N. Thomaidis

1 copy Kenai Oil & Gas Inc. 1 Barclay Plaza #500, 1675 Larimer Street,

Denver, CO 80202 Attn: Joseph R. Mazzola

2 copies Utah Oil Gas & Mining, 1588 West North Temple, Salt Lake City, UT  
84116

Phone  
713-790-9132

# LYNES, INC.

Box 12486  
Houston, TX 77017

Contractor Arapahoe Drilling  
Rig No. 4  
Spot NE-SW  
Sec. 10  
Twp. 36S  
Rng. 26E  
Field Ucola  
County San Juan  
State Utah  
Elevation 6646 Ft. K.B.  
Formation Desert Creek

Top Choke 1/4"  
Bottom Choke 1"  
Size Hole 8 3/4"  
Size Rat Hole --  
Size & Wt. D. P. 4 1/2" XH 16.60  
Size Wt. Pipe --  
I. D. of D. C. 2 1/4"  
Length of D. C. 645 Ft.  
Total Depth 6400 Ft.  
Interval Tested 6320-6365 Ft.  
Type of Test Bottom Hole  
Conventional

Flow No. 1 28 Min.  
Shut-in No. 1 90 Min.  
Flow No. 2 120 Min.  
Shut-in No. 2 240 Min.  
Flow No. 3 -- Min.  
Shut-in No. 3 -- Min.

Bottom  
Hole Temp. 137.3° F  
Mud Weight 12.2  
Gravity --  
Viscosity 40

Tool opened @ 9:35 A.M.

## Inside Recorder

PRD Make Kuster K-3  
No. 24521 Cap. 6625 @ 6301'

	Press	Corrected
Initial Hydrostatic	A	4069
Final Hydrostatic	K	4011
Initial Flow	B	83
Final Initial Flow	C	83
Initial Shut-in	D	2928
Second Initial Flow	E	78
Second Final Flow	F	141
Second Shut-in	G	3116
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist. Rock Springs, WY  
Our Tester: Lance Sipma  
Witnessed By: Mike Sliger

Did Well Flow - Gas Yes Oil No Water No  
RECOVERY IN PIPE:

310 Ft. Total Fluid = 2.01  
30 Ft. Oil and gas cut mud = .15 bbl.  
280 Ft. Gas and mud cut water = 1.86 bbls.

## Blow Description:

1st Flow:

Tool opened with a surface blow, increased to 8 psi in 5 minutes, increased to 10 psi at the end of the flow period.

2nd Flow:

Tool opened with blow at the bottom of the bucket, increased to 3 psi in 15 minutes, increased to 4 psi in 45 minutes with gas to surface at 45 minutes, See Gas Volume Report, decreased to 1 psi in 60 minutes, decreased to 8" in 85 minutes and remained thru the end of the flow period.

Comments:

Reservoir Calculations are enclosed for both fluid and gas.

Operator Celsius Energy Company  
Address See Distribution

Well Name and No. Ucola #3  
Ticket No. 04151

Date 4/25/83

DST No. 1  
No. Final Copies 9

# LYNES, INC.

Celsius Energy Company  
Operator

Ucola #3

Well Name and No.

1  
DST No.

Comments relative to DST #1 run on Ucola #3, NE-SW-10-36S-26E, in San Juan County, Utah for Celsius Energy Company.

The enclosed calculations and analysis were performed by plotting the time pressure data on a semi-log scale and using the slope and extrapolated pressure in the appropriate fluid and gas calculations. Please note that plots and calculations for both a fluid and gas case are enclosed as well as two time pressure listings.

The results in both instances indicate a zone of low permeability with no damage indicated in either the fluid or gas calculations.

It should be noted that these calculations should be used as indicators only since many reservoir parameters used have been estimated. These can be changed at any time without any inconveniences.



T.H. Adams, C.E.T.  
Manager Technical Services

\*\*\* LYNES INC. \*\*\*

Operator.....: CELSIUS ENERGY COMPANY  
Well ID.....: UCOLA #3  
Location.....: NE-SW-10-36S-26E  
DST Number.....: 1  
Formation.....: DESERT CREEK  
Type of test....: BOTTOM HOLE CONVENTIONAL  
Test interval...: 6320-6365  
Recorder number : 24521  
Recorder depth : 6301

RESERVOIR CALCULATIONS: Fluid calculations based on 2nd shut-in  
\*\*\*\*\*

RESERVOIR PARAMATERS USED:  
\*\*\*\*\*

Net Pay.....:	10.00 ft.
Porosity.....:	10.00 %
Compressibility.....:	.000014 /psi
Flow rate.....:	19.56 bbl/day
Extrapolation.....:	3659.57 psi
Slope.....:	2373.80 psi/cycle
Wellbore radius.....:	.36 ft.
Total flowing time....:	148.00 minutes
Final flowing pressure:	141.00 psi
Formation vol. factor :	1.48 rb/stb
Viscosity.....:	.50 cp

RESULTS:  
\*\*\*\*\*

Effective Permeability...(k)....:	.10 md
Flow capacity.....(kh)....:	.99 md-ft
Transmissibility.....(kh/u)....:	1.98 md-ft/cp
Skin.....(s)....:	-1.97
Damage ratio.....:	.46
Productivity index.....:	.01 bbl-day/psi
Radius of investigation.....:	17.14 ft.

CELCIUS ENERGY  
DST#: 1  
UCOLA #3  
6320-6365

Page 1

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 1622  
Recorder Depth: 6365 ft.

TIME-PRESSURE LISTING  
-----

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURE (T+dt)/dt PSI	PRESSURE SQUARED PSI <sup>2</sup> /10 <sup>6</sup>
A	INITIAL HYDROSTATIC	0.0		4187.0	
B	START OF 1st FLOW	0.0		97.0	
C	END OF 1st FLOW	28.0		126.0	
	1st SHUTIN PERIOD	0.0	0.0	126.0	0.0000
		6.0	225.0	351.0	5.6667
		12.0	505.0	631.0	3.3333
		18.0	790.0	916.0	2.5556
		24.0	1077.0	1203.0	2.1667
		30.0	1360.0	1486.0	1.9333
		36.0	1632.0	1758.0	1.7778
		42.0	1889.0	2015.0	1.6667
		48.0	2112.0	2238.0	1.5833
		54.0	2297.0	2423.0	1.5185
		60.0	2449.0	2575.0	1.4667
		70.0	2632.0	2758.0	1.4000
		80.0	2765.0	2891.0	1.3500
D	END OF 1st SHUTIN	90.0	2864.0	2990.0	1.3111
E	START OF 2nd FLOW	0.0		91.0	
F	END OF 2nd FLOW	120.0		190.0	
	2nd SHUTIN PERIOD	0.0	0.0	190.0	1.3111
		6.0	141.0	331.0	25.6667
		12.0	296.0	486.0	13.3333
		18.0	430.0	620.0	9.2222
		24.0	629.0	819.0	7.1667
		30.0	806.0	996.0	5.9333
		40.0	1115.0	1305.0	4.7000
		50.0	1421.0	1611.0	3.9600
		60.0	1706.0	1896.0	3.4667
		70.0	1951.0	2141.0	3.1143
		80.0	2146.0	2336.0	2.8500
		90.0	2295.0	2485.0	2.6444
		100.0	2409.0	2599.0	2.4800
		110.0	2500.0	2690.0	2.3455
		120.0	2575.0	2765.0	2.2333
		130.0	2638.0	2828.0	2.1385
		140.0	2693.0	2883.0	2.0571
		150.0	2738.0	2928.0	1.9867
		160.0	2779.0	2969.0	1.9250



CELCIUS ENERGY  
DST#: 1  
UCOLA #3  
6320-6365

Page 2

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 1622  
Recorder Depth: 6365 ft.

TIME-PRESSURE LISTING  
-----

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURE (T+dt)/dt PSI	ABSCISSA	PRESSURE SQUARED PSI <sup>2</sup> /10 <sup>6</sup>
		170.0	2814.0	3004.0	1.8706	
		180.0	2844.0	3034.0	1.8222	
		190.0	2871.0	3061.0	1.7789	
		200.0	2897.0	3087.0	1.7400	
		210.0	2918.0	3108.0	1.7048	
		220.0	2939.0	3129.0	1.6727*	
		230.0	2958.0	3148.0	1.6435*	
G END OF 2nd SHUTIN		240.0	2974.0	3164.0	1.6167*	
K FINAL HYDROSTATIC		0.0		4137.0		

\* VALUES USED FOR EXTRAPOLATIONS

CELSIUS ENERGY COMPANY

Page 3

DST#: 1

UCOLA #3

6320-6365

Location: NE-SW-10-36S-26E

Recorder Number: 24521

Test Type: BOTTOM HOLE CONVENTIONAL

Recorder Depth: 6301 ft.

Formation: DESERT CREEK

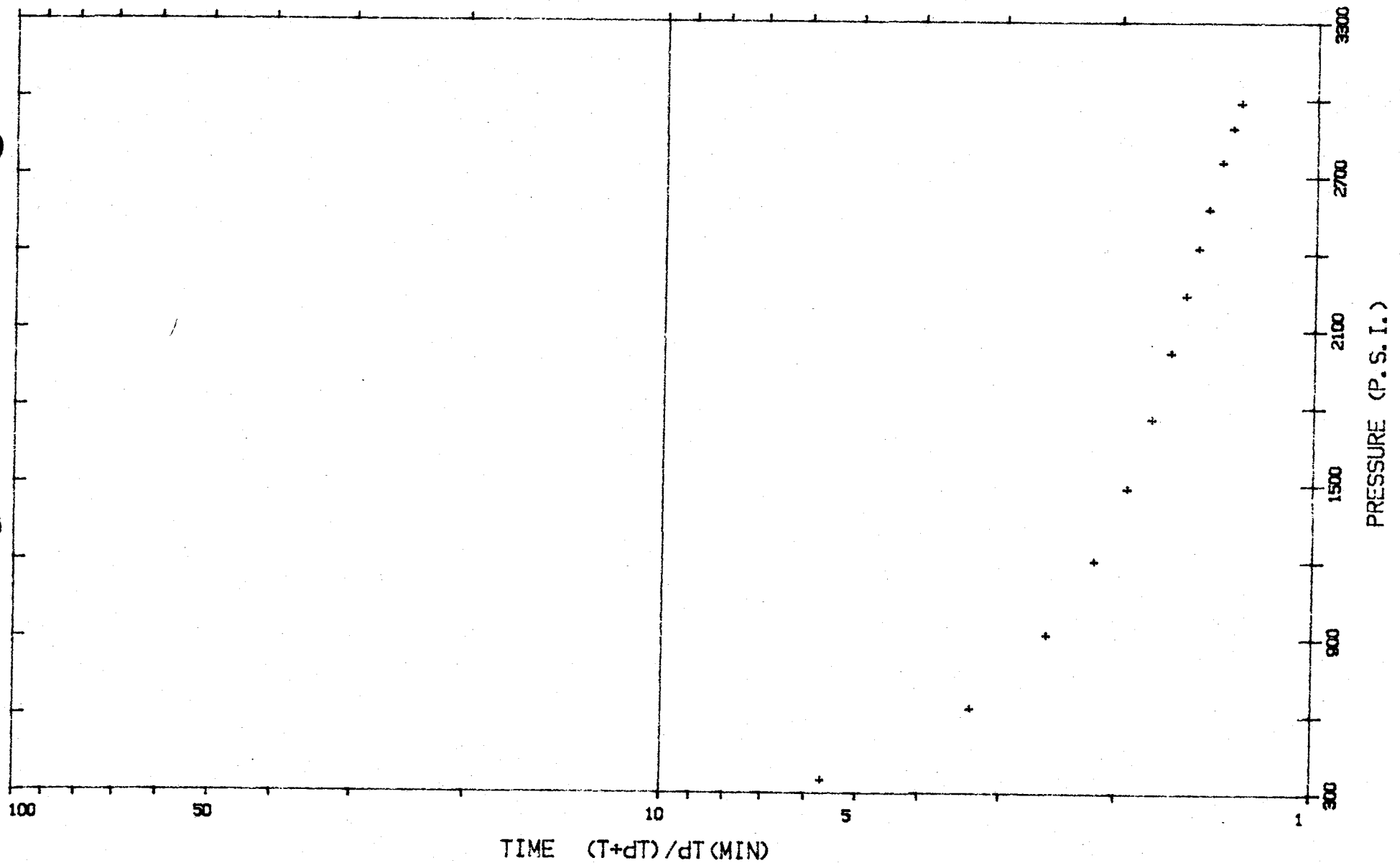
2nd SHUT-IN

HORNER EXTRAPOLATION 3624.50 PSI

HORNER SLOPE 14.97 (PSI<sup>2</sup>/10<sup>6</sup>)/cycle

OPERATOR: CELCIUS ENERGY  
WELL NAME: UCOLA #3  
LOCATION: NE-SW-10-36S-26E  
FIRST SHUT-IN  
RECORDER: 1622

DST #: 1  
DEPTH: 6365

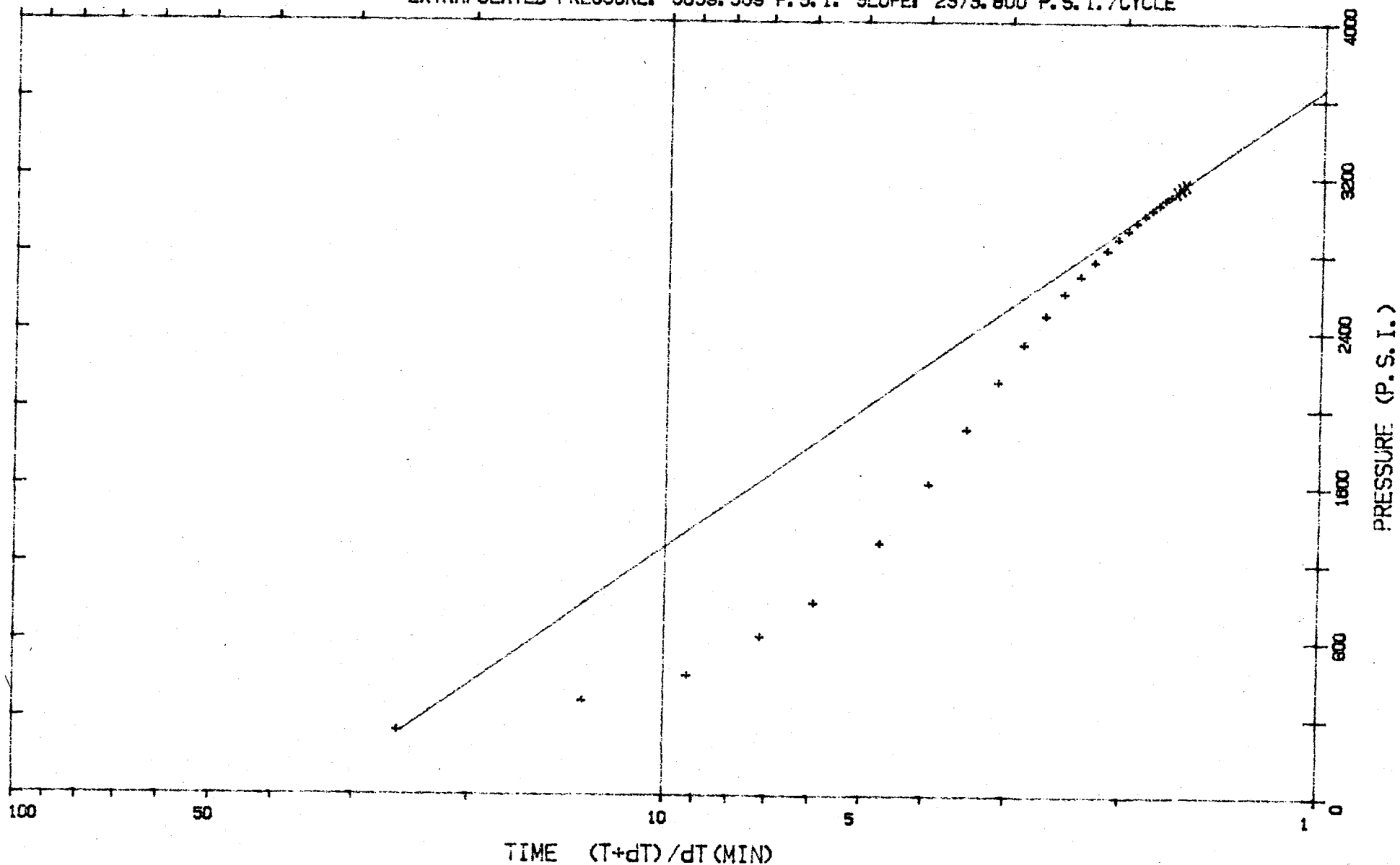


OPERATOR: CELCIUS ENERGY  
WELL NAME: UCOLA #3  
LOCATION: NE-SW-10-36S-26E  
SECOND SHUT-IN  
RECORDER: 1622

DST #: 1

DEPTH: 6365

EXTRAPOLATED PRESSURE: 3659.569 P. S. I. SLOPE: 2373.800 P. S. I. /CYCLE



\*\*\* LYNES INC. \*\*\*

Operator.....: CELSIUS ENERGY COMPANY  
Well ID.....: UCOLA #3  
Location.....: NE-SW-10-36S-26E  
DST Number.....: 1  
Formation.....: DESERT CREEK  
Type of test....: BOTTOM HOLE CONVENTIONAL  
Test interval....: 6320-6365  
Recorder number : 24521  
Recorder depth : 6301

RESERVOIR CALCULATIONS: Gas calculations based on 2nd shut-in  
\*\*\*\*\*

RESERVOIR PARAMETERS USED:  
\*\*\*\*\*

Bottom hole temp:	137.00 deg. F.	Specific gravity:	.650000
Porosity.....:	10.00 %	Z factor.....:	.867584
Net Pay.....:	10.00 ft.	Compressibility:	.000197 /psi
Flow rate.....:	19.56 mcfd	Viscosity.....:	.013560 cp
Total flowing time.....:	148.000 minutes		
Final flowing pressure :	141.000 psi		
Horner Extrapolation....:	3624.504 psi		
Horner Slope.....:	14.973 psi <sup>2</sup> /10 <sup>6</sup>		
Assumed drainage radius:	2082.000 ft.		
Wellbore radius.....:	.365 ft.		

RESULTS:  
\*\*\*\*\*

Effective permeability....(k)...	.0015 md
Flow capacity.....(kh)...	.0150 md-ft
Transmissibility.....(kh/u)...	1.1076 md-ft/cp
Skin.....(s)...	-1.0531
Damage ratio.....:	.4891
Absolute Open Flow...(AOF).....:	19.5941 mcfd
Radius of investigation.....:	3.4152 ft.

CELSIUS ENERGY COMPANY

DST#: 1

UCOLA #3

6320-6365

Page 1

Location: NE-SW-10-36S-26E

Test Type: BOTTOM HOLE CONVENTIONAL

Formation: DESERT CREEK

Recorder Number: 24521

Recorder Depth: 6301 ft.

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURE (T+dt)/dt PSI	ABSCISSA	PRESSURE SQUARED PSI <sup>2</sup> /10 <sup>6</sup>
A	INITIAL HYDROSTATIC	0.0		4069.0		
B	START OF 1st FLOW	0.0		83.0		
C	END OF 1st FLOW	28.0		83.0		
	1st SHUTIN PERIOD	0.0	0.0	126.0	0.0000	0.0000
		6.0	225.0	351.0	5.6667	.1232
		12.0	505.0	631.0	3.3333	.3982
		18.0	790.0	916.0	2.5556	.8391
		24.0	1077.0	1203.0	2.1667	1.4472
		30.0	1360.0	1486.0	1.9333	2.2082
		36.0	1632.0	1758.0	1.7778	3.0906
		42.0	1889.0	2015.0	1.6667	4.0602
		54.0	2297.0	2423.0	1.5185	5.8709
		60.0	2449.0	2575.0	1.4667	6.6306
		70.0	2632.0	2758.0	1.4000	7.6066
		80.0	2765.0	2891.0	1.3500	8.3579
D	END OF 1st SHUTIN	90.0	2864.0	2990.0	1.3111	8.9401
E	START OF 2nd FLOW	0.0		78.0		
F	END OF 2nd FLOW	120.0		141.0		
	2nd SHUTIN PERIOD	0.0	0.0	190.0	1.3111	8.9401
		6.0	141.0	331.0	25.6667	.1096
		12.0	296.0	486.0	13.3333	.2362
		18.0	430.0	620.0	9.2222	.3844
		24.0	629.0	819.0	7.1667	.6708
		30.0	806.0	996.0	5.9333	.9920
		40.0	1115.0	1305.0	4.7000	1.7030
		50.0	1421.0	1611.0	3.9600	2.5953
		60.0	1706.0	1896.0	3.4667	3.5948
		70.0	1951.0	2141.0	3.1143	4.5839
		80.0	2146.0	2336.0	2.8500	5.4569
		90.0	2295.0	2485.0	2.6444	6.1752
		100.0	2409.0	2599.0	2.4800	6.7548
		110.0	2500.0	2690.0	2.3455	7.2361
		120.0	2575.0	2765.0	2.2333	7.6452
		130.0	2638.0	2828.0	2.1385	7.9976
		140.0	2693.0	2883.0	2.0571	8.3117
		150.0	2738.0	2928.0	1.9867	8.5732
		160.0	2779.0	2969.0	1.9250	8.8150
		170.0	2814.0	3004.0	1.8706	9.0240

CELSIUS ENERGY COMPANY  
DST#: 1  
UCOLA #3  
6320-6365

Page 2

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 24521  
Recorder Depth: 6301 ft.

TIME-PRESSURE LISTING  
-----

CHART LABEL	COMMENTS	TIME MIN.	DELTA P PSI	PRESSURE (T+dt)/dt PSI	ABSCISSA	PRESSURE SQUARED PSI <sup>2</sup> /10 <sup>6</sup>
		180.0	2844.0	3034.0	1.8222	9.2052
		190.0	2871.0	3061.0	1.7789	9.3697
		200.0	2897.0	3087.0	1.7400	9.5296
		210.0	2918.0	3108.0	1.7048	9.6597
		220.0	2939.0	3129.0	1.6727*	9.7906
		230.0	2958.0	3148.0	1.6435*	9.9099
G END OF 2nd SHUTIN		240.0	2974.0	3164.0	1.6167*	10.0109
K FINAL HYDROSTATIC		0.0		4011.0		

\* VALUES USED FOR EXTRAPOLATIONS

CELCIUS ENERGY  
DST#: 1  
UCOLA #3  
6320-6365

Page 3

Location: NE-SW-10-36S-26E  
Test Type: BOTTOM HOLE CONVENTIONAL  
Formation: DESERT CREEK

Recorder Number: 1622  
Recorder Depth: 6365 ft.

2nd SHUT-IN

HORNER EXTRAPOLATION	3659.57 PSI
HORNER SLOPE	2373.80 PSI/cycle



OPERATOR: CELSIUS ENERGY COMPANY

WELL NAME: UCOLA #3

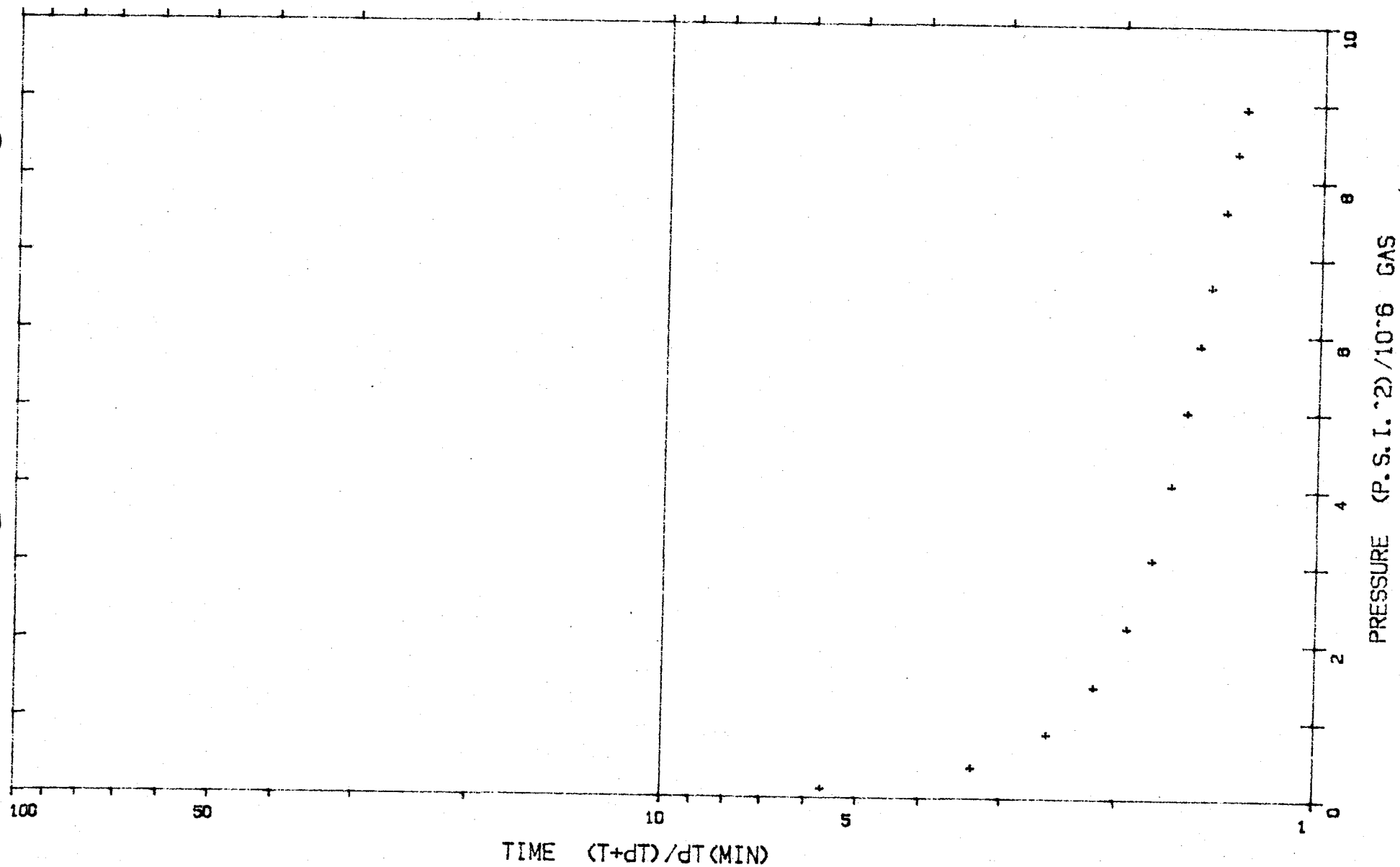
LOCATION: NE-SW-10-36S-26E

FIRST SHUT-IN

RECORDER: 24521

DST #: 1

DEPTH: 6301



OPERATOR: CELSIUS ENERGY COMPANY

WELL NAME: UCOLA #3

LOCATION: NE-SW-10-36S-28E

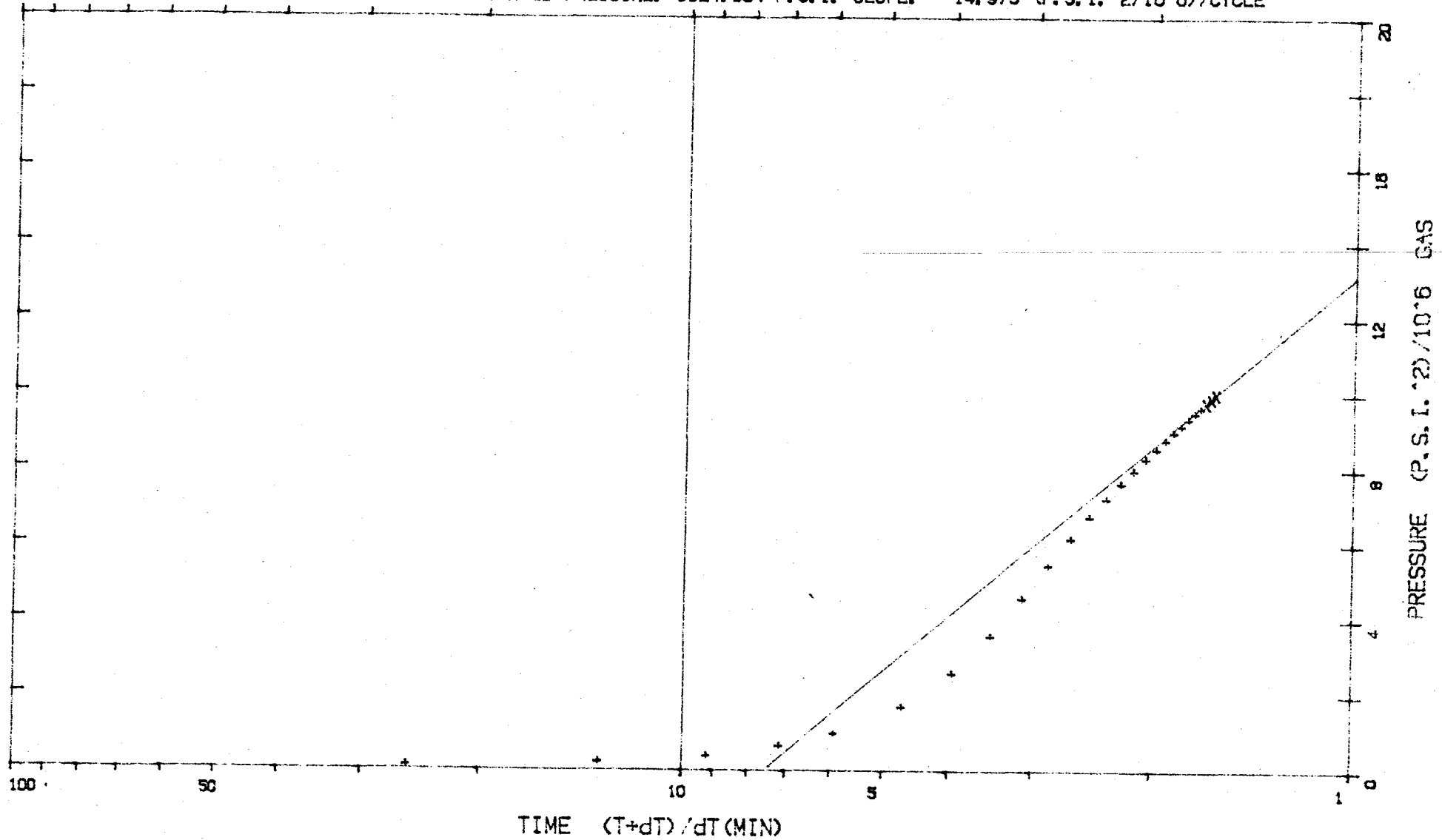
DST #: 1

SECOND SHUT-IN

RECORDER: 24521

DEPTH: 6301

EXTRAPOLATED PRESSURE: 3624.504 P. S. I. SLOPE: 14.973 (P. S. I.  $\cdot 2/10^{-6}$ )/CYCLE



# LYNES, INC.

# Gas Volume Report

Celsius Energy Company  
Operator

Ucola #3

Well Name and No.

DST No.

[illegible]**Remarks:**

# LYNES, INC.

## Sampler Report

Company Celsius Energy Company Date 4/25/83  
Well Name & No. Ucola #3 Ticket No. 04151  
County San Juan State Utah  
Test Interval 6320-6365 Ft. DST No. 1

Total Volume of Sampler: 2150 cc.

Total Volume of Sample: 1400 cc.

Pressure in Sampler: 30 psig

Oil: 5 cc.

Water: 1000 cc.

Mud: 395 gas cut mud cc.

Gas: .09 cu. ft.

Other: --

Sample R.W.: .1 @ 63° = 80,000 ppm. cl.

### Resistivity

Make Up Water -- @ -- Salinity Content -- ppm.

Mud Pit Sample .65 @ 68°F Salinity Content 9100 ppm.

Gas/Oil Ratio -- Gravity -- °API @ -- °F

Where was sample drained On location.

Remarks: Recovery:

Top Sample R.W.: .2 @ 65°F = 35,000 ppm. cl.

Middle Sample R.W.: .1 @ 65°F = 80,000 ppm. cl.

Bottom Sample R.W.: .08 @ 63°F = 105,000 ppm. cl.

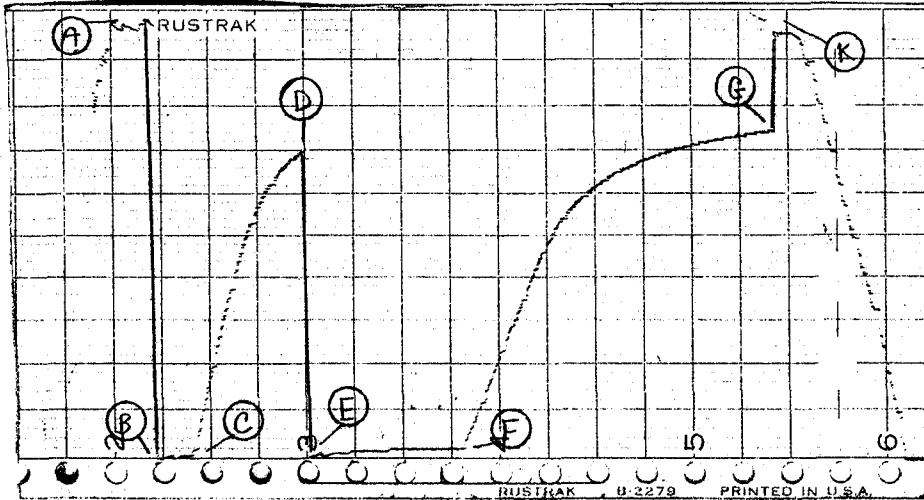
DST#: 1  
UCOLA #3  
6320-6365

PRESSURE RECORDER NUMBER : 1622

DEPTH : 6365.00ft. LOCATION : OUTSIDE  
TYPE : DMR CAPACITY : 5000.00 PSI

PRESSURE  
PSI

A)Initial Hydro : 4187.0  
B)1st Flow Start: 97.0  
C)1st Flow End : 126.0  
D)END 1st Shutin: 2990.0  
E)2nd Flow Start: 91.0  
F)2nd Flow End : 190.0  
G)END 2nd Shutin: 3163.0  
K)Final Hydro. : 4137.0

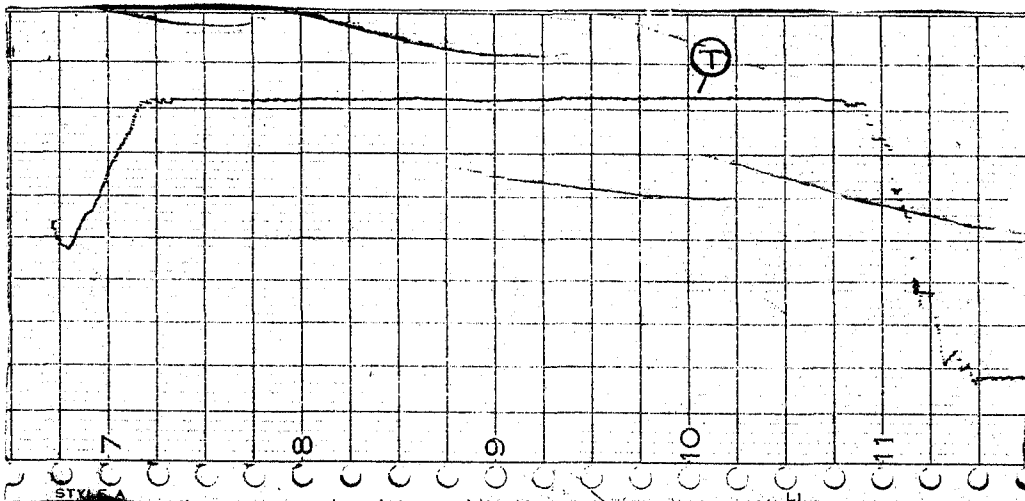


TEST TIMES(MIN)  
1st FLOW : 28  
SHUTIN: 90  
2nd FLOW : 120  
SHUTIN: 240

TEMPERATURE RECORDER NUMBER : 1622

DEPTH : 6365.00 ft. LOCATION : OUTSIDE  
TYPE : DMR CAPACITY : 5000.00 PSI

TEMPERATURE  
137.3°F



# LYNES, INC.

## Distribution of Final Reports

Celsius Energy Company

Operator

Ucola #3

Well Name and No.

Original &

1 copy Celsius Energy Company / Wexpro, POB 11070, Salt Lake City, UT 84147

Attn: Roger W. Fallen

2 copies Celsius Energy Company, POB 458, Rock Springs WY 82901

Attn: Petroleum Engineer

2 copies Celsius Energy Company, POB 2329, Farmington, NM 87499

Attn: N. Thomaidis

1 copy Kenai Oil & Gas Inc. 1 Barclay Plaza #500, 1675 Larimer Street,

Denver, CO 80202 Attn: Joseph R. Mazzola

2 copies Utah Oil Gas & Mining, 1588 West North Temple, Salt Lake City, UT

84116

CORE LABORATORIES, INC.  
*Petroleum Reservoir Engineering*  
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

CELSIUS ENERGY COMPANY

UCOLO NO. 3 WELL  
UCOLD FIELD  
SAN JUAN COUNTY, UTAH

RECEIVED  
MAY 27 1983

DIVISION OF  
OIL, GAS & MINING

**CORE LABORATORIES, INC.**  
*Petroleum Reservoir Engineering*  
 DALLAS, TEXAS

PAGE 1 OF

CELSIUS ENERGY COMPANY  
 UCOLO NO. 3 WELL  
 UCOLO FIELD  
 SAN JUAN COUNTY, UTAH

DATE ON : 25-APR-83 OFF: 23-MAY-83  
 FORMATION : DESERT CREEK  
 DRLG. FLUID: WATER BASE MUD  
 LOCATION : NE SW SEC. 30-T36S-R26E

FILE NO : 3803-3260  
 LABORATORY: FARMINGTON  
 ANALYSTS : GG:DS  
 ELEVATION : 6646 KB

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX K <sub>a</sub>	PERM MD 90DEG K <sub>a</sub>	He POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
	6305.0-15.0							SHL/LM - NO ANALYSIS
	6315.0-21.0							ANHYDRITE - NO ANALYSIS
1	6321.0-22.0	* 0.16	**	3.0	2.6	71.9	2.78	DOL BRN VF XLN
2	6322.0-23.0	0.62	0.60	7.5	2.5	73.9	2.83	DOL BRN VF XLN VUG
3	6323.0-24.0	7.8	6.7	7.6	1.3	25.3	2.81	DOL BRN VF XLN VUG
4	6324.0-25.0	3.6	3.4	7.0	2.1	33.6	2.84	DOL BRN VF XLN VUG
5	6325.0-26.0	8.8	8.3	8.4	4.5	37.5	2.84	DOL BRN VF XLN VUG
6	6326.0-27.0	6.7	2.2	10.2	2.5	50.9	2.83	DOL BRN VF XLN VUG
7	6327.0-28.0	21.	**	9.6	2.3	27.6	2.84	DOL BRN VF XLN VUG
8	6328.0-29.0	3.2	2.7	9.0	2.7	43.5	2.85	DOL BRN VF XLN VUG
9	6329.0-30.0	1.3	0.96	7.8	1.8	29.6	2.85	DOL BRN VF XLN VUG
10	6330.0-31.0	0.73	0.69	6.1	0.6	28.0	2.86	DOL BRN VF XLN SL/ANHY
11	6331.0-32.0	0.62	0.62	3.9	0.0	52.4	2.87	DOL BRN VF XLN SL/ANHY
12	6332.0-33.0	0.28	0.27	2.5	0.0	47.0	2.85	DOL BRN VF XLN
13	6333.0-34.0	<0.01	**	0.8	0.0	62.9	2.78	DOL BRN VF XLN
14	6334.0-35.0	<0.01	**	1.0	0.0	69.2	2.76	DOL DK BRN VF XLN SL/SHL
15	6335.0-36.0	<0.01	**	0.9	4.9	78.1	2.76	DOL DK BRN VF XLN SL/SHL
	6337.0-56.0							SHL/LM - NO ANALYSIS
	6356.0-64.0							SHALE - NO ANALYSIS
	6364.0-66.0							DOL/LM - NO ANALYSIS

\* FRACTURED PERMEABILITY PLUG

\*\* UNSUITABLE FOR FULL DIAMETER ANALYSIS, PLUG USED.



CORE LABORATORIES, INC.  
Petroleum Reservoir Engineering  
DALLAS, TEXAS

CELSIUS ENERGY COMPANY  
UCOLO NO. 3 WELL

DATE : 25-APR-83  
FORMATION : DESERT CREEK

FILE NO. : 3803-3260  
ANALYSTS : GG:DS

\*\*\* CORE SUMMARY AVERAGES FOR 1 ZONE \*\*\*

DEPTH INTERVAL: 6321.0 TO 6337.0

FEET OF CORE ANALYZED : 15.0 FEET OF CORE INCLUDED IN AVERAGES: 15.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY HORIZONTAL RANGE (MD.)	:	0.00 TO 22.	(UNCORRECTED FOR SLIPPAGE)
HELIUM POROSITY RANGE (%)	:	0.7 TO 100.0	
OIL SATURATION RANGE (%)	:	0.0 TO 5.0	
WATER SATURATION RANGE (%)	:	0.0 TO 80.0	

SHALE SAMPLES EXCLUDED FROM AVERAGES.

AVERAGES FOR DEPTH INTERVAL: 6321.0 TO 6337.0

AVERAGE PERMEABILITY (MILLIDARCIES)

ARITHMETIC PERMEABILITY	:	3.7
GEOMETRIC PERMEABILITY	:	0.64
HARMONIC PERMEABILITY	:	0.04

PRODUCTIVE CAPACITY (MILLIDARCY-FEET)

ARITHMETIC CAPACITY	:	55.
GEOMETRIC CAPACITY	:	9.6
HARMONIC CAPACITY	:	0.64

AVERAGE POROSITY (PERCENT) : 5.7

AVERAGE TOTAL WATER SATURATION : 42.2  
(PERCENT OF PORE SPACE)

AVERAGE RESIDUAL OILSATURATION : 2.1  
(PERCENT OF PORE SPACE)

PERMEABILITY VS POROSITY

COMPANY: CELSIUS ENERGY COMPANY  
 FIELD : UCOLO FIELD

WELL : UCOLO NO. 3 WELL  
 COUNTY, STATE: SAN JUAN COUNTY, UTAH

AIR PERMEABILITY : MD - HORIZONTAL ( UNCORRECTED FOR SLIPPAGE )  
 POROSITY : PERCENT ( HELIUM )

DEPTH INTERVAL	RANGE & SYMBOL	PERMEABILITY		POROSITY		POROSITY AVERAGE	PERMEABILITY AVERAGES		
		MINIMUM	MAXIMUM	MIN.	MAX.		ARITHMETIC	HARMONIC	GEOMETRIC
6321.0 - 6337.0	1 (+)	0.000	22.0	0.7	10.3	5.7	3.7	0.04	0.64

EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY :  
 $\text{LOG}(K) = (\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT}$   
 $K = \text{ANTILOG}((\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT})$

RANGE	EQUATION OF THE LINE
1	PERM = ANTILOG(( 0.3365)(POROSITY) + -2.1057)

PERMEABILITY: MILLIDARCIES

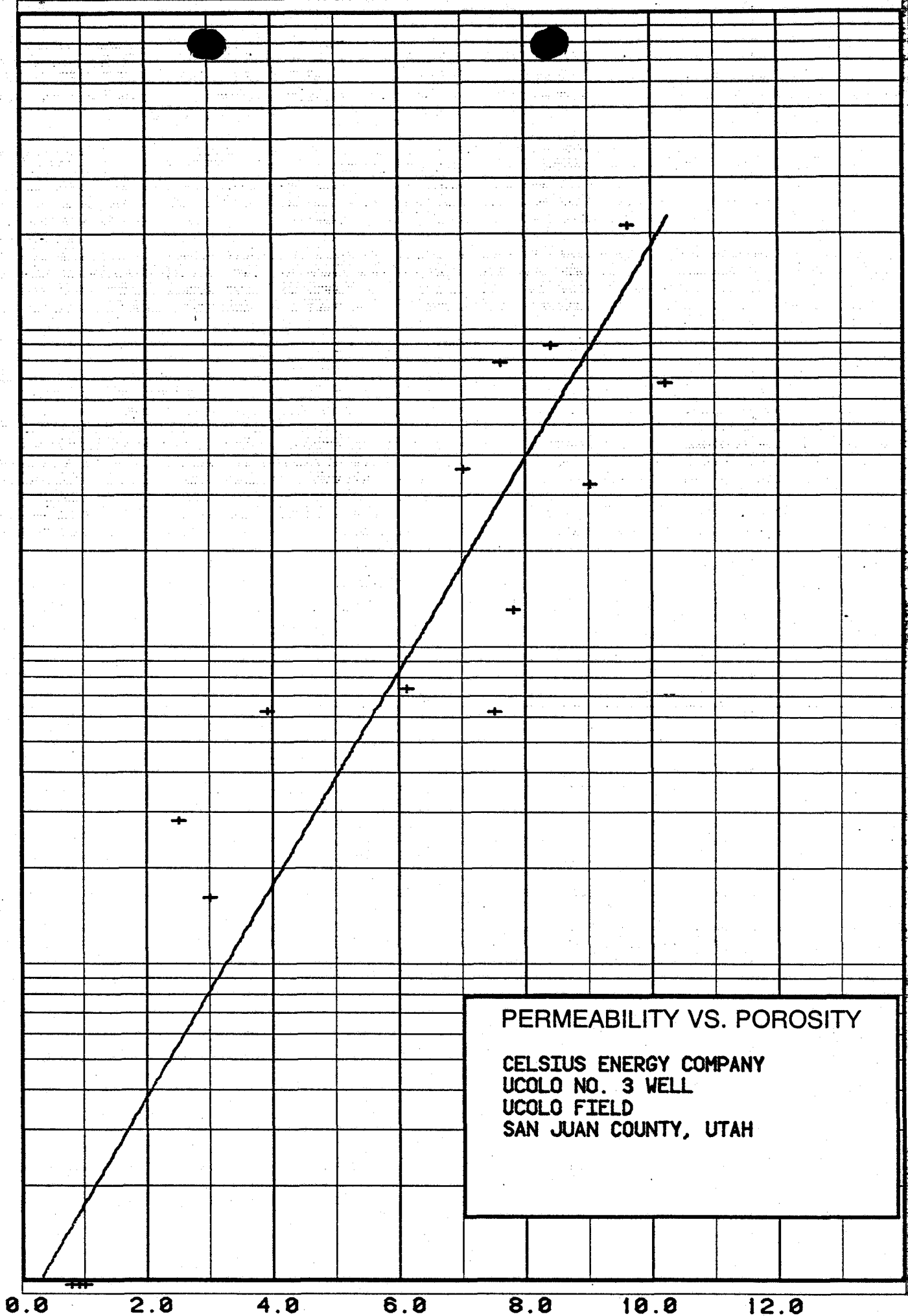
100.

10.

1.

0.1

0.01



PERMEABILITY VS. POROSITY

CELSIUS ENERGY COMPANY  
UCOLO NO. 3 WELL  
UCOLO FIELD  
SAN JUAN COUNTY, UTAH

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: CELSIUS ENERGY COMPANY  
FIELD : UCOLO FIELD

WELL : UCOLO NO. 3 WELL  
COUNTY, STATE: SAN JUAN COUNTY, UTAH

AIR PERMEABILITY : MD. ( HORIZONTAL ) RANGE USED 0.000 TO 22.  
POROSITY : PERCENT ( HELIUM ) RANGE USED 0.7 TO 46.0

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEPTH LIMITS : 6321.0 - 6337.0 INTERVAL LENGTH : 16.0  
FEET ANALYZED IN ZONE : 15.0 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

POROSITY AVERAGE	PERMEABILITY AVERAGES		
	ARITHMETIC	HARMONIC	GEOMETRIC
5.7	3.7	0.04	0.64

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: CELSIUS ENERGY COMPANY  
FIELD : UCOLO FIELD

WELL : UCOLO NO. 3 WELL  
COUNTY, STATE: SAN JUAN COUNTY, UTAH

GROUPING BY POROSITY RANGES

POROSITY RANGE	FEET IN RANGE	AVERAGE POROSITY	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.0 - 2.0	3.0	0.9	0.009	0.009	20.0	20.0
2.0 - 4.0	3.0	3.1	0.303	0.353	20.0	40.0
4.0 - 6.0	5.0	7.2	1.8	2.8	33.3	73.3
6.0 - 10.0	3.0	9.0	8.4	11.	20.0	93.3
10.0 - 12.0	1.0	10.2	6.7	6.7	6.7	100.0

TOTAL NUMBER OF FEET = 15.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: CELSIUS ENERGY COMPANY  
FIELD : UCOLO FIELD

WELL : UCOLO NO. 3 WELL  
COUNTY, STATE: SAN JUAN COUNTY, UTAH

GROUPING BY PERMEABILITY RANGES

PERMEABILITY RANGE	FEET IN RANGE	AVERAGE PERM. (GEOM.)	PERM. (ARITH)	AVERAGE POROSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.005 - 0.010	3.0	0.009	0.009	0.9	20.0	20.0
0.015 - 0.031	2.0	0.212	0.220	2.8	13.3	33.3
0.031 - 0.062	2.0	0.620	0.620	5.7	13.3	46.7
0.062 - 0.125	1.0	0.730	0.730	6.1	6.7	53.3
0.125 - 0.250	1.0	1.3	1.3	7.8	6.7	60.0
0.250 - 0.500	2.0	3.4	3.4	8.0	13.3	73.3
0.5 - 1.0	3.0	7.7	7.8	8.7	20.0	93.3
1.0 - 2.0	1.0	21.	21.	9.6	6.7	100.0

TOTAL NUMBER OF FEET = 15.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: CELSIUS ENERGY COMPANY  
 FIELD : UCOLO FIELD

WELL : UCOLO NO. 3 WELL  
 COUNTY, STATE: SAN JUAN COUNTY, UTAH

POROSITY-FEET OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

POROSITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	ARITH MEAN	MEDIAN
-----	-----	-----	-----	-----	-----	-----
0.0	0.0	0.0	15.0	100.0	5.7	6.6
2.0	3.0	3.2	12.0	96.8	6.9	7.2
4.0	6.0	14.2	9.0	85.8	8.1	
6.0	6.0	14.2	9.0	85.8	8.1	
8.0	11.0	56.4	4.0	43.6	9.3	
10.0	14.0	88.0	1.0	12.0	10.2	
12.0	15.0	100.0	0.0	0.0		

TOTAL STORAGE CAPACITY IN POROSITY-FEET = 85.3

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: CELSIUS ENERGY COMPANY  
 FIELD : UCOLO FIELD

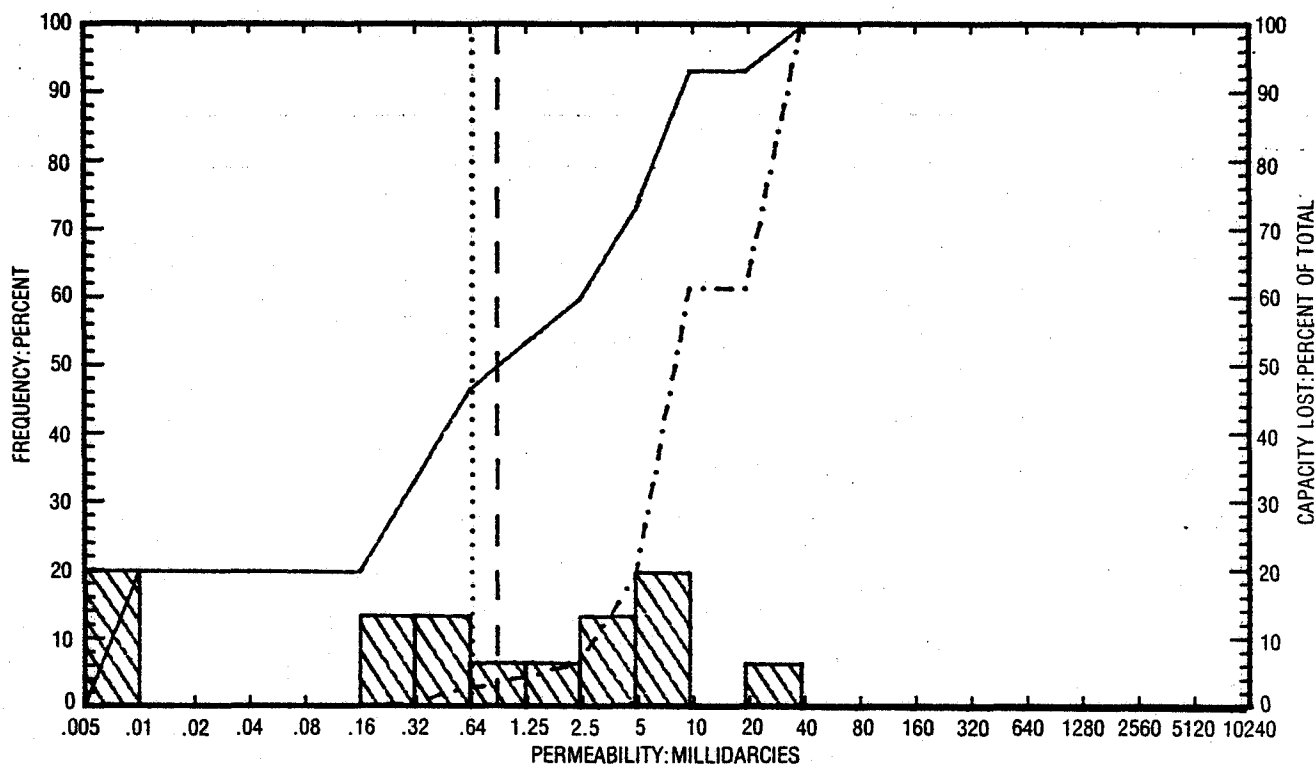
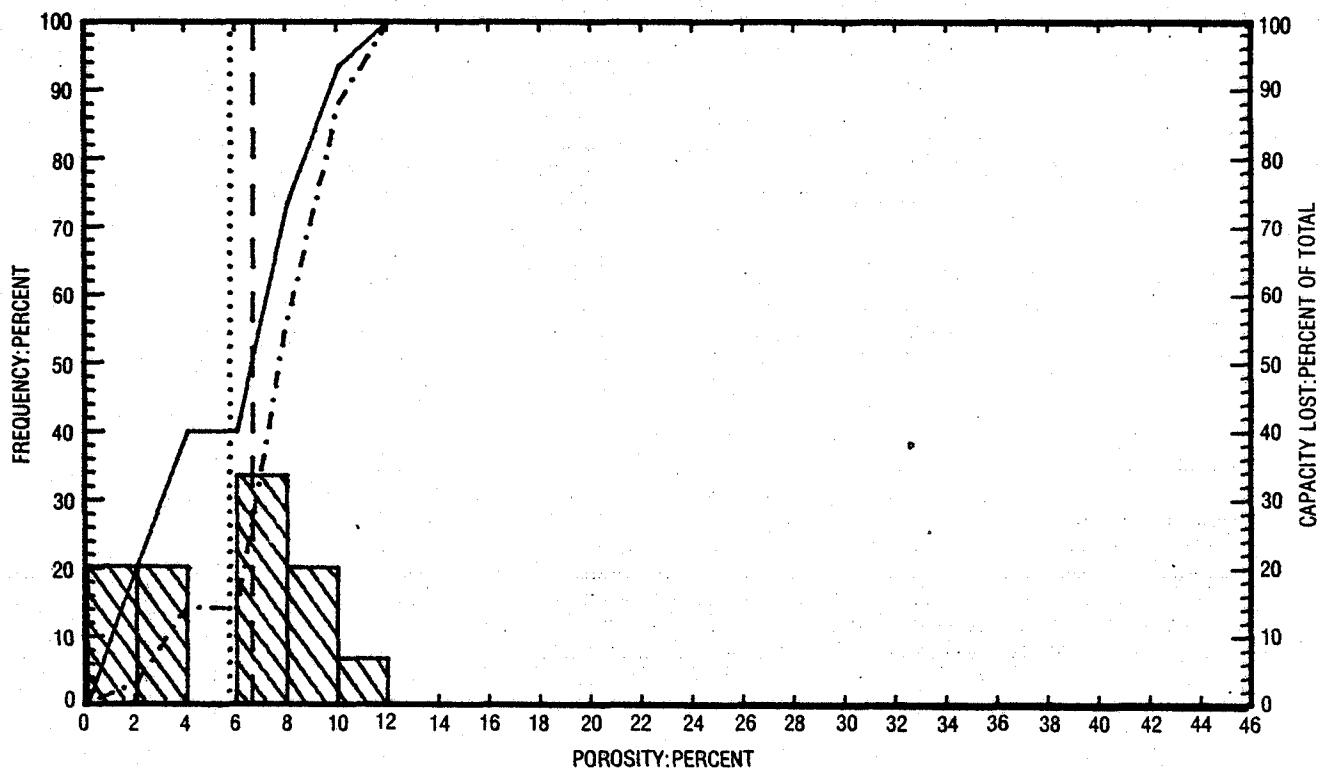
WELL : UCOLO NO. 3 WELL  
 COUNTY, STATE: SAN JUAN COUNTY, UTAH

MILLIDARCY-FEET OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

PERMEABILITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	GEOM MEAN	MEDIAN
0.005	0.0	0.0	15.0	100.0	0.64	0.88
0.010	3.0	0.0	12.0	100.0	1.87	2.50
0.020	3.0	0.0	12.0	100.0	1.87	2.50
0.039	3.0	0.0	12.0	100.0	1.87	2.50
0.078	3.0	0.0	12.0	100.0	1.87	2.50
0.156	3.0	0.0	12.0	100.0	1.87	2.50
0.312	5.0	0.9	10.0	99.1	2.89	3.54
0.625	7.0	3.1	8.0	96.9	4.25	5.00
1.250	8.0	4.4	7.0	95.6	5.46	5.61
2.500	9.0	6.8	6.0	93.2	6.94	6.30
5.	11.0	19.2	4.0	80.8	9.91	
10.	14.0	61.7	1.0	38.3	21.00	
20.	14.0	61.7	1.0	38.3	21.00	
40.	15.0	100.0	0.0	0.0		

TOTAL FLOW CAPACITY IN MILLIDARCY-FEET (ARITHMETIC) = 54.84





### PERMEABILITY AND POROSITY HISTOGRAMS

CELSIUS ENERGY COMPANY  
UCOLO NO. 3 WELL  
UCOLO FIELD  
SAN JUAN COUNTY, UTAH

#### LEGEND

ARITHMETIC MEAN POROSITY .....  
GEOMETRIC MEAN PERMEABILITY .....  
MEDIAN VALUE .....  
CUMULATIVE FREQUENCY .....  
CUMULATIVE CAPACITY LOST .....

**CORE LABORATORIES, INC.***Petroleum Reservoir Engineering*COMPANY CELSTUS ENERGY COMPANYFILE NO. 3803-3200WELL UCOLO NO. 3DATE 25-APR-83ENGRS. GG:DSFIELD UCOLOFORMATION DESERT CREEKELEV. 8646 KBCOUNTY SAN JUANSTATE UTAHDRLG. FLD. WATER BASE MUD

CORES \_\_\_\_\_

# CoRes Log

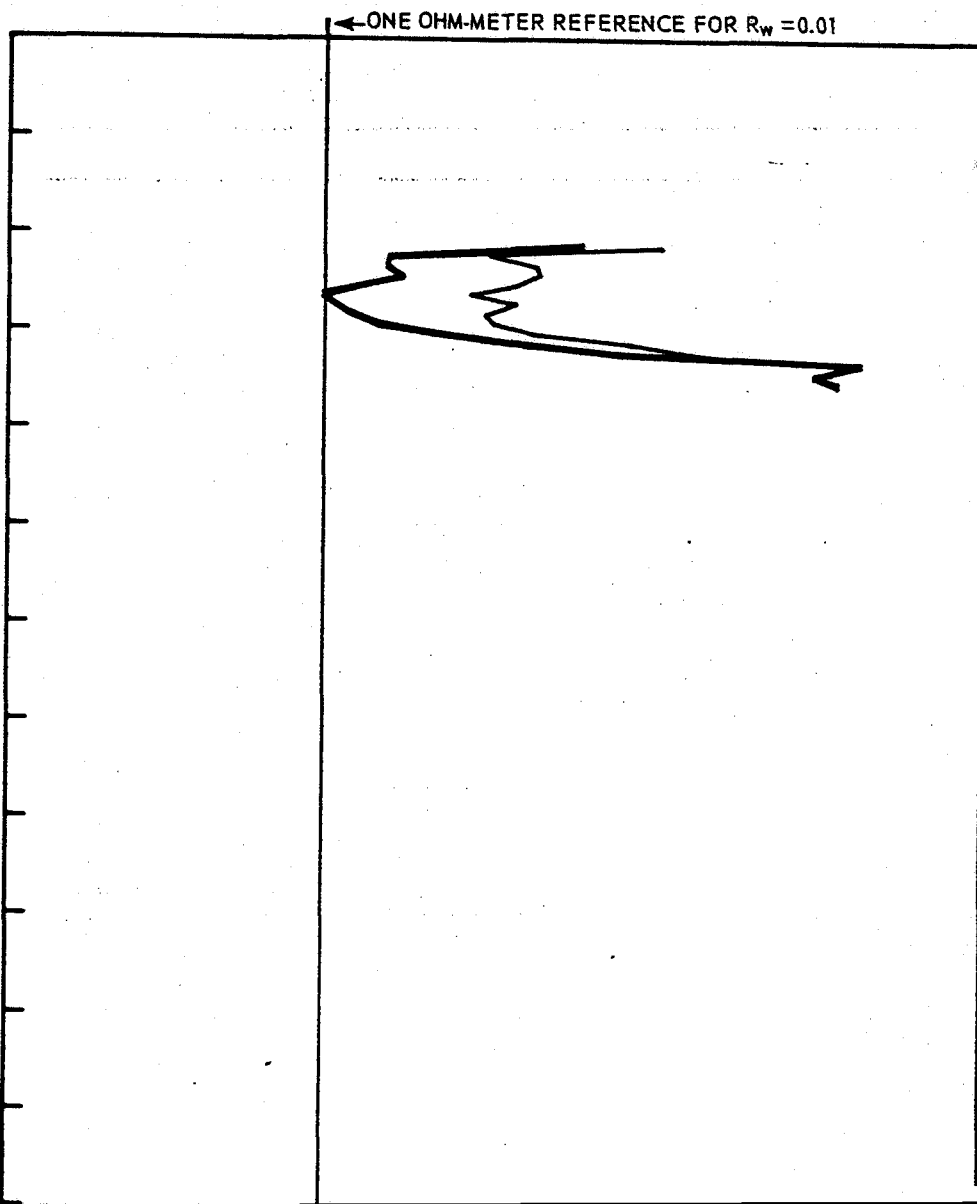
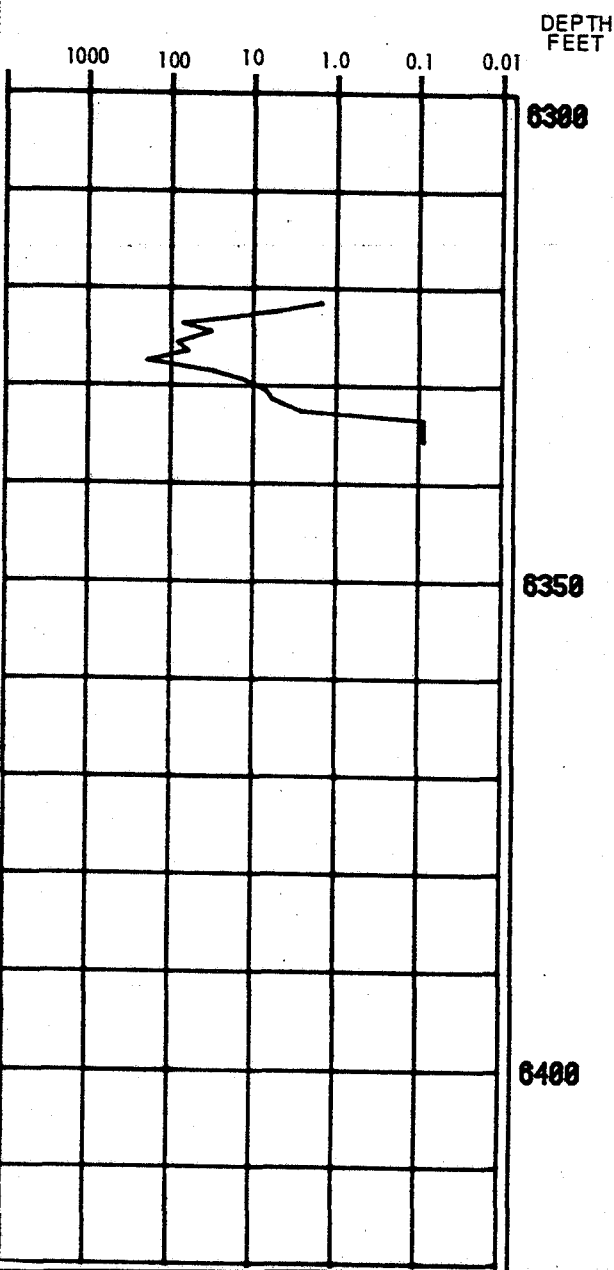
## CORE and RESISTIVITY EVALUATION

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted) but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proven operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

RESISTIVITY PARAMETERS:  $a = 1.00$   $m = 2.00$   $n = 2.00$  . Depths 6321.0 to 6337.0 .  
 $a =$  \_\_\_\_\_  $m =$  \_\_\_\_\_  $n =$  \_\_\_\_\_ . Depths \_\_\_\_\_ to \_\_\_\_\_ .

PERMEABILITY  
MILLIDARCIES

CORE ANALYSIS CALCULATED RESISTIVITY

 $R_o$  = OHM-METERS AT 100%  $S_w$  \_\_\_\_\_ $R_{mp}$  = OHM-METERS AT CRITICAL  $S_w$  \_\_\_\_\_

BEST COPY  
AVAILABLE

**CORE LABORATORIES, INC.**



*Petroleum Reservoir Engineering*

COMPANY **CELSIUS ENERGY COMPANY**

FILE NO. **3803-3280**

WELL **UCOLO NO. 3**

DATE **25-APR-83**

FIELD **UCOLO**

FORMATION **DESERT CREEK**

ELEV. **6640 KB**

COUNTY **SAN JUAN** STATE **UTAH**

DRLG. FLD. **WATER BASE MUD**

CORES

LOCATION **NE SW SEC. 30-T38S-R26E**

## CORRELATION COREGRAPH

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VERTICAL SCALE: 5" = 100'

Total Water

PERCENT PORE SPACE

100 80 60 40 20 0

Oil Saturation

PERCENT PORE SPACE

0 0 20 40 60 80 100

Gamma Ray

RADIATION INCREASE →

Permeability

MILLIDARCIES

100 10 1.0 .1

Porosity

PERCENT

20 10

Depth  
Feet

30

6300

6350

6400

6450

6500

6550

6600

6650

6700

6750

6800

6850

6900

6950

7000

7050

7100

7150

7200

7250

7300

7350

7400

7450

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Celsius Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---
3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, WY 82902		7. UNIT AGREEMENT NAME ---
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  NE SW, 2100' FSL, 2080' FWL		8. FARM OR LEASE NAME Ucolo
14. PERMIT NO. API 43-037-30875		9. WELL NO. 3
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6633' KB 6647.20'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 10-36S-26E, SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Supplemental History ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

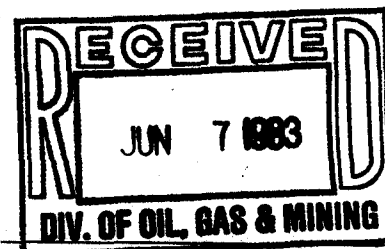
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

May 1, 1983 rigged up workover rig.

Landed 2-7/8" OD, 6.5#, J-55, 8 rd thrd, EUE tubing at 6226.46' KBM.

Perforated 6320-6324' with two holes per foot.

Acidized with 2000 gallons 15% HCL acid, displaced with 38 barrels water, all fluid has 800 SCF N<sub>2</sub> per barrel, average rate 3.1 BPM, pressure 2950 psi.

18. I hereby certify that the foregoing is true and correct

SIGNED

*A. J. Maser*

TITLE Drilling Superintendent

DATE June 1, 1983

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

Submit in triplicate\*  
(See instructions on reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Celsius Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --
3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, WY 82902		7. UNIT AGREEMENT NAME --
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  NE SW, 2100' FSL, 2080' FWL		8. FARM OR LEASE NAME Ucolo
14. PERMIT NO. API 43-037-30875		9. WELL NO. 3
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6633' KB 6647.20'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 10-36S-26E, SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

### SUBSEQUENT REPORT OF:

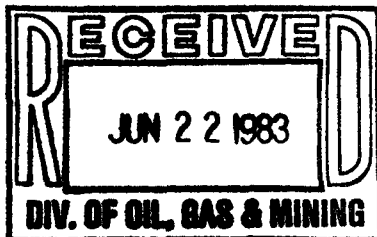
WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input checked="" type="checkbox"/> Supplemental History	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Rigged down workover rig.

Well is shut-in, waiting on orders.



18. I hereby certify that the foregoing is true and correct

SIGNED C. J. Maser TITLE Drilling Superintendent DATE June 20, 1983

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SEE IN TRIPLICATE\*  
(Other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Celsius Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---
3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, WY 82902		7. UNIT AGREEMENT NAME ---
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE SW, 2100' FSL, 2080' FWL		8. FARM OR LEASE NAME Ucolo
14. PERMIT NO. API: 43-037-30875		9. WELL NO. 3
15. ELEVATIONS (Show whether OF, RT, GR, etc.) GR 6633' KB 6647.20'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 10-36S-26E, SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	Supplemental History <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well is shut-in, waiting on orders.

RECEIVED  
AUG 01 1983

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Maser

TITLE Drilling Superintendent

DATE July 27, 1983

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Celsius Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --
3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, WY 82902		7. UNIT AGREEMENT NAME --
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		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(Other) Supplemental History	<input checked="" type="checkbox"/>
		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well is shut-in waiting on orders.

RECEIVED  
AUG 18 1983

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*C. J. Maser*

TITLE Drilling Superintendent

DATE 8-15-83

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

Submit in triplicate\*  
(Other instructions on reverse side)

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1. OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/> <b>2. NAME OF OPERATOR</b> Celsius Energy Company <b>3. ADDRESS OF OPERATOR</b> P. O. Box 458, Rock Springs, WY 82902 <b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface NE SW, 2100' FSL, 2080' FWL		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> Fee <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> --- <b>7. UNIT AGREEMENT NAME</b> --- <b>8. FARM OR LEASE NAME</b> Ucolo <b>9. WELL NO.</b> 3 <b>10. FIELD AND POOL, OR WILDCAT</b> Wildcat <b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> 10-36S-26E, SLB&M <b>12. COUNTY OR PARISH</b> San Juan <b>13. STATE</b> Utah
<b>14. PERMIT NO.</b> API: 43-037-30875	<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) GR 6633', KB 6647.20'	

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

**NOTICE OF INTENTION TO:**

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

**SUBSEQUENT REPORT OF:**

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/> Supplemental History	<input checked="" type="checkbox"/> XX

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well is shut-in, waiting on orders.

**18. I hereby certify that the foregoing is true and correct**

SIGNED

*C. J. Maser*

TITLE Drilling Superintendent

DATE Sept. 1, 1983

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



September 13, 1983

Celsius Energy Company  
P. O. Box 458  
Rock Springs, Wyoming 82903

RE: Celsius Energy Company  
Ucolo No. 3 Well  
NE/4 SW/4 Sec. 10, T.36S, R.26E  
San Juan County, Utah

Gentlemen:

Sundry Notices and Reports on Wells, Form OGC-16, dated June 1, 1983 submitted for the referenced well indicated that the well was perforated and stimulated on about May 1, 1983. Subsequent reports of Supplemental History filed with this Division indicate that the well is shut-in, waiting on orders.

In order to finalize our records, we request that you file the Well Completion or Recompletion Report and Log Form OGC-3, to accurately reflect the present status of this well. The Completion report should also be accompanied by a sundry notice advising of any subsequent work performed on the well.

Your early attention to this matter will be appreciated.

Sincerely,



R. P. Rirth  
Chief Petroleum Engineer

RJF/as

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

Submit in triplicate\*  
(other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Celsius Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---
3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, WY 82902		7. UNIT AGREEMENT NAME ---
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE SW, 2100' FSL, 2080' FWL		8. FARM OR LEASE NAME Ucolo
14. PERMIT NO. API: 43-037-30875		9. WELL NO. 3
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6633', KB 6647.20'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA 10-36S-26E, SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐

FULL OR ALTER CASING

☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐  
☐

FRACTURE TREATMENT

REPAIRING WELL

SHOOTING OR ACIDIZING

ALTERING CASING

(Other) Supplemental History

ABANDONMENT\*

☐  
☐  
☐  
☒

(NOTE: Report results of multiple completion on Well  
(Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well is shut-in, waiting on orders.

RECEIVED  
SEP 15 1983

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*C. J. Mauer*

TITLE Drilling Superintendent

DATE Sept. 12, 1983

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

7  
December 13, 1983

Utah Division of Natural Resources  
Dept. of Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Re: Celsius Energy Co.--Ucola No. 3 *file*

Gentlemen:

On behalf of my mother, Adra Baird, who has granted me her Power of Attorney, we respectfully request you waive the dry hole marker requirement on the Ucola No. 3 well. This well is situated in Sec. 10, T 36 S, R 26 E in San Juan County and operated by Celsius Energy Co.

We request the pipe be cut off well below plow line as it is in an open field.

Thank you for your consideration.

Sincerely,

*Robert Baird*

Robert Baird  
Box 235  
Dove Creek, Co. 81324

cc Jennifer Head  
Wexpro Co.

RECEIVED  
DEC 16 1983

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

## SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Celsius Energy Company</p> <p>3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, Wyoming 82902</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  NE SW, 2100' FSL, 2080' FWL</p> <p>14. PERMIT NO. API: 43-037-30875</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. Fee <input checked="" type="checkbox"/></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME --</p> <p>7. UNIT AGREEMENT NAME --</p> <p>8. FARM OR LEASE NAME Ucolo</p> <p>9. WELL NO. 3</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 10-36S-26E, SLB&amp;M</p> <p>12. COUNTY OR PARISH San Juan</p> <p>13. STATE Utah</p>
<p>15. ELEVATIONS (Show whether OF, RT, OR, etc.) GR 6633' KB 6647.20'</p>	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On 11/17/83, we removed upper wellhead and installed hydraulic stripper head. Ran in 3 joints tubing and found PBD at 6340' KBM, filled hole with 143 barrels 9.0 ppg mud. Pumped 50 sacks cement down the 5½" X 9-5/8" casing annulus, set plugs as follows:

Plug No. 1: 30 sacks from 6330' to 6100' KBM

Plug No. 2: 30 sacks from 3000' to 2800' KBM

Plug No. 3: 10 sacks from 100' to surface in 5½" casing.

Removed tubing spool. The casing flange, 9-5/8" casing and 5½" casing will be cut off 6" below plow level and a plate will be welded over the casing stub. This work will be accomplished as soon as weather conditions permit.

RECEIVED

JAN 19 1984

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

**DIVISION OF  
OIL, GAS & MINING**

18. I hereby certify that the foregoing is true and correct

SIGNED \_\_\_\_\_

TITLE Staff EngineerDATE 1-16-84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

# PLUGGING WORK SHEET

OPERATOR: CELSIUS

WELL: UCOLO #3

LOCATION: NESW 10 - 3&S, 26E  
SAN JUAN

## Evaluation

## Geology

## Drilling

	Significant Formations	Well Depth	Hole Size	Casing & Cement	Mud Program
<p>NO CASING WILL BE PULLED.</p> <p>SHOWS APPEARING ONLY IN DESERT CREEK PERFS - 20 R/L 4.0 TO 1 BBL OIL.</p> <p>CMT AT BOTTOM OF 5 1/2" CASING HAS NOT BEEN DRILLED OUT AND EFFECTIVE AS A 40' PLUG WITH OUTSIDE CMT BACK TO 4800'.</p>	<p>MORRISON — SURFACE</p> <p>ENTRADA — 1117'</p> <p>CARMEL — 1270'</p> <p>NAVAJO — 1303'</p> <p>CHINLE — 2028'</p> <p>SHINARUMP — 2680'</p> <p>CUTLER — 2803'</p> <p>HONNAKER T. — 4615'</p> <p>PARADOX — 5394'</p> <p>DESERT CREEK — APPROX 6306'</p>	<p>2019'</p> <p>4800'</p> <p>2014'</p> <p>2981'</p>	<p>+ MARKER</p> <p>400'</p> <p>200'</p> <p>APPROX 2000'</p> <p>200'</p> <p>ACROSS PERFS</p>	<p>9 5/8" CMT TO SFC</p> <p>5 1/2" CMT TO 4800'</p> <p>6320 / 6328 &gt; PERFS</p>	<p>HEAVY MUD</p>

Company Contact: TOM COLSON

Telephone: (307) 382-9791

Date: 11-16-83

*[Signature]*

SALT-6390' 6398'

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐

2. NAME OF OPERATOR  
Celsius Energy Company

3. ADDRESS OF OPERATOR  
P. O. Box 458, Rock Springs, WY 82902

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface NE SW, 2100' FSL, 2080' FWL  
At top prod. interval reported below  
At total depth

**RECEIVED**  
FEB 6 1984

**DIVISION OF  
OIL, GAS & MINING**

14. PERMIT NO. DATE ISSUED  
API: 43-037-30875

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 19. ELEV. CASINGHEAD  
4/12/83 4/26/83 P&A 11/17/83 GR 6633.00' KB 6647.20' --

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 25. WAS DIRECTIONAL SURVEY MADE

6398' Surface -- -- 10-6398' -- --

Plugged and Abandoned

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED

OTL/CNL-FDC Yes

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8	36	2018.58'	12-1/4	500 sx Halco Lite w/add. & 200 sx B w/additives	0
5-1/2	17	6392.20'	8-3/4	400 sx 50-50 Pozmix A	0

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
6320'-6324' - 2 Shots Per Foot		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6320'-6328' - 2 Shots Per Foot		6320-6324'	2000 gals 15% HCL
		6320-6324'	100 sx Class B Cement
		6320-6328'	2500 gals 15% HCL w/800 SCF N <sub>2</sub> /bbl acid

33.\* PRODUCTION

DATE FIRST PRODUCTION 5/6/83 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Swab Well WELL STATUS (Producing or shut-in) Plugged & Abandoned

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5/6/83	9 Days	1"	→	45	NETG	556	-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
0	0	→	-	-	-	-	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented TEST WITNESSED BY J. A. Clark/H. R. Leeper

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Director, Petroleum Eng.

DATE 2-1-84

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH
Desert Creek	6305'	6365'	Cored	Morrison	Surface
Desert Creek	6320'	6365'	DST #1: IO 30 mins, ISI 90 mins, FO 120 mins, FSIP 240 mins, opened strong, 5 mins 8 psi, 15 mins 9 psi, 30 mins 10 psi, NGTS reopened, 5 mins 2.5 psi, 15 mins 3 psi, 45 mins 4 psi, gas to surface in 45 mins, NETG, recovered 30' gas & oil cut mud.	Entrada	1,117
				Carmel	1,270
				Navajo	1,303
				Chinle	2,028
				Shinarump	2,680
				Cutler	2,803
				Honaker Trail	4,615
				Paradox	5,344
				Upper Ismay	6,018
				Ismay Shale	6,071
				Ismay Base	6,155
				B Zone Shale	6,206
				Desert Creek	6,263
				Lower Bench DC	6,309
				Desert Creek	
				Porosity	6,320
				Salt	6,390
Desert Creek	6318'	6398'	DST #2: IO 30 mins, ISI 90 mins, FO 240 mins, FSIP 360 mins, opened weak inc to med blow in 10 mins, 30 mins 3 psi, 2nd open weak to bottom of bucket in 7 mins, 15 mins 3 psi, 210 mins 3 psi w/gas to surface, recovered 110' gas cut mud.		

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Morrison	Surface	
Entrada	1,117	
Carmel	1,270	
Navajo	1,303	
Chinle	2,028	
Shinarump	2,680	
Cutler	2,803	
Honaker Trail	4,615	
Paradox	5,344	
Upper Ismay	6,018	
Ismay Shale	6,071	
Ismay Base	6,155	
B Zone Shale	6,206	
Desert Creek	6,263	
Lower Bench DC	6,309	
Desert Creek		
Porosity	6,320	
Salt	6,390	